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Vol. CV III



## THE BEST HOUSE FOR ALL PHARMACEUTICAL PRODUCTS

*Proprietors of the "Silver Churn" Dairy Preparations*

**OLDFIELD, PATTINSON & Co.**  
TELEGRAMS: "OPIUM."  
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### A Sure Summer Seller

# "Torch" Brand Effervescent Saline

(Free from Sugar)



Crisp, dry granules, easy to manipulate and which dissolve readily in water, forming a sparkling effervescence of long duration. It is free from sugar and therefore specially suited to diabetics and others on a restricted carbohydrate dietary.

*In bottles with a "Sure Seal" Cap*

Small size - 1/- cellophane wrapper - (7/6 per dozen)  
Large size - 1/3 coloured wrapper - (10/- per dozen)

**ALLEN & HANBURYS LIMITED**  
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## ATTENTION, GENTLEMEN

Are you buying your Patents on the best possible terms? Pharmacists are prone to disparage the margin of profit allowed them by manufacturers, but are apt at times to overlook the increased profit to be made by taking advantage of the Special Terms offered for specified quantities.

The new May, Roberts' Catalogue, just issued, contains 17 pages of Special Terms which will

repay your attention. You will note that all the lines mentioned are in good general demand, so that the risk of overstocking is reduced to a minimum, and the quantities specified are reasonable, and well within the legitimate buying scope of most Pharmacists.

The extra profit to be obtained averages 5%,  
a comfortable extra, which will furnish a  
handsome contribution to your rent account.

Send a postcard for your copy to

**MAY, ROBERTS & CO., LTD., 7/13 Clerkenwell Road, E.C.1**



You would no doubt sell ENO's "Fruit Salt" even without advertising.

For ENO differs from its competitors because it is pleasant to take and gentle yet thorough in action.

People tell each other about it. The steady advertising pressure behind ENO is creating more and more sales each year. This year the advertising is attracting attention by reason of its strong presentation and selling copy. It is selling ENO's "Fruit Salt." Your customers are satisfied customers and they come back again and again. Ask for Display Material.

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LONDON - E.C.4

**30%**

ON SELLING PRICE

WHEN BOUGHT  
ON BEST  
TERMS



# These THREE NEW ITEMS

*The Gladys Cooper Line is now  
the most complete and up-to-date*

## LIP SALVE



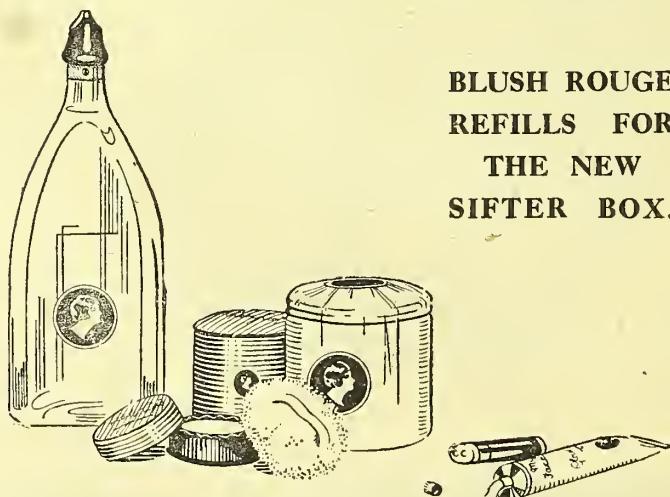
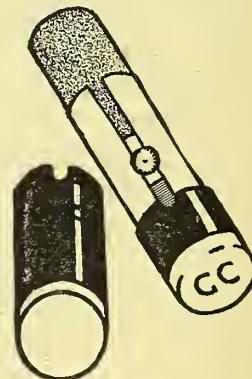
A unique square Lip Salve in black dorcasine with monogram in white. We are well assured by the favour with which the advanced design has been received that the sales will be considerable. The box contains a mirror in the lid. The Lip Salve is in two shades, light for evening wear and dark for day use.

To be retailed at 3/6. (Usual Trade Terms.)

## LIP STICK—new large size

The New Lip Stick containing more than double the quantity of cosmetic than the 2/6 size is now ready for the market. This Lip Stick is carried out in the same design as the old one except that the case is round instead of oval.

To be retailed at 3/- (Usual Trade Terms.)



## BLUSH ROUGE REFILLS FOR THE NEW SIFTER BOX.

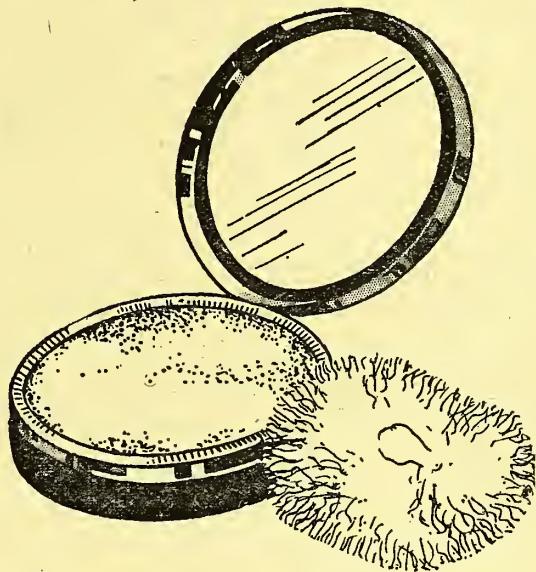
Blush Rouge Refills to retail at 1/6. This is in our well known grey box with the signature on the lid. As you are aware by your sales the Blush Rouge is one of our best selling lines, and the packing of this in the new sifter box necessitates the sale of a refill.

*—will increase your sales*

# SIFTER POWDER BOX

A very attractive black oxidised box for powder, the top bearing the monogram G.C. in white. It contains a mirror and swansdown puff and the method of refilling is extremely simple. All the usual three shades of powder, as also the blush rouge, will be packed and any quantity will be supplied.

**To be retailed at 3/6, (Usual Trade Terms.)**



## The Remainder of the Line

*MY FACE CREAM* is an absolutely pure cleansing cream and a skin food as well; in 3½ pots for general use, as well as larger sizes, and in 1/- collapsible tubes for travelling.

*MY LIQUID DAY CREAM* as well as being a perfect foundation for powder, is a great protection to the skin against the sun and wind. Like my face powder it imparts that natural honey look to the skin; at 4/- and 7/-, also in small sizes at 2/-.

*MY FACE POWDER* is extremely fine and adds a natural expression to the face; made in Incarnat, Medium Rachel and Pale Rachel, 2/6 and 4/6 boxes and in Cardboard Sifter Puff Boxes, 1/6.

*MY OWN SHAMPOO, Henna or Camomile, at 6d.  
packet, will bring out the natural colours and restore  
the sheen to the hair.*

*BLUSH ROUGE* in cardboard sifter boxes with puff, 1/6.

*ROSE BALM* is a refreshing tonic for the skin,  
3/6 and 6/6.

*ASTRINGENT LOTION.* 10/- and 5/-. Small size, for travelling, 3/-.

(Usual Trade Terms.)

*The Gladys Cooper  
Preparations are  
Nationally Advertised.*

(Usual Trade Terms.)

*Gladys Cooper.*

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BOND STREET,  
W.1**

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A New Scientific Food for the Nervous System.

# "NEW-PROMONTA"

An organic food preparation containing the LIPOIDS of the substance of the central nervous system combined with the carriers of the known VITAMINES, Lime, Iron, highly concentrated Albumines, Hæmoglobin and Carbo-Hydrates.

A perfectly pure natural Tonic-Food prepared scientifically under the supervision of experts—An unequalled Reconstituent for both Children and Adults in all cases of weakness or the after-effects of illness.

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*NEW-PROMONTA increases the Appetite and aids Digestion.*

*NEW-PROMONTA enriches the Blood.*

*NEW-PROMONTA gives an increased Vitality.*

*NEW-PROMONTA invigorates the whole Frame.*

*NEW-PROMONTA is extremely palatable to persons of all ages.*

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*Obtainable from the principal Wholesale Chemists and Sundries Houses.*

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Careful buyers invariably choose Staff Allen's Powdered Tragacanth because of its consistently high standard of quality. Write for samples and prices. Stafford Allen & Sons, Ltd., Drug Millers since 1833, London, E.C.2



**Staff Allen's**  
POWDERED  
**TRAGACANTH**



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INCREASED SALES FOR NEXT SEASON  
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## COLD CREAM

YOUR customers require Quality, Purity and Moderate Prices. If you stock goods that come under this category you automatically ensure yourself rapid and ever-increasing profits.

"Specialty" Otto Cold Cream is guaranteed for Quality and Purity, all the ingredients used in manufacture being carefully selected from the finest materials procurable.

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We will gladly send you samples and prices.



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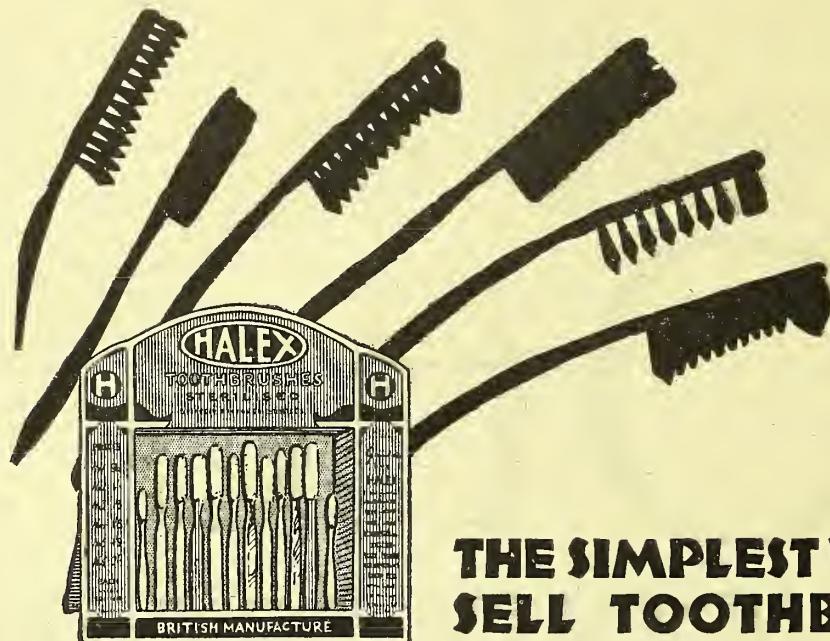
**ANGLO-AMERICAN OIL CO., LTD.**

**"SPECIALTY" DEPT.,**

Albert Street, Camden Town, LONDON, N.W.1.

Telephones:  
Hampstead 8066-7-8*i*

Telegrams:  
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## **THE SIMPLEST WAY TO SELL TOOTHBRUSHES**

On your counter the Red and Black Showcase works persistently and without fuss. It pays its counter rent by the extra sales it makes. It provides a steady reminder to your customers that the purchase of a new toothbrush is due, and it offers its selection in a way that gives the salesman no trouble. It is a labour-saving device in the shop, and a highly profitable one, for the toothbrushes carry a profit of 60%. Tell your wholesaler to deliver without delay.

### **THE INTRODUCTORY PARCEL INCLUDES :**

The handsome glass-fronted display case, containing 1 doz. Halex brushes — 2 each of 6 patterns; six handy boxes of half-dozen. Halex brushes in six different patterns, making 4 doz. in all; a striking transparency and a showcard for window display.

The cost is 40/- . It brings you £3 6s. od.

**PUT THE  
RED AND BLACK  
HALEX SHOWCASE  
ON YOUR COUNTER**

# Big Cash Prizes

## FOR NEW-MIX

# Window Displays

**NEW  
MIX**

### CONDITIONS OF ENTRY

1. Window Display to be for a period of a fortnight.
2. Applications for window display material to be made on the printed form below before June 30th, 1928.
3. Orders for stock will be supplied (subject to the present 90 days' special bonus terms) before June 30th, 1928.
4. Display to commence at any time up to August 1st, 1928.

The First Prize of £100 will be awarded to the chemist making the best Window Display, to be decided from a photograph of the window to be supplied by the chemist. The decision of the Directors of Gilmont Products, Limited, to be final. Size of window does not necessarily mean a better window. A small window arranged in a meritorious and attractive manner will stand an equal chance of winning a prize.

The Second Prize of £50 will be awarded to the chemist with the next best Window Display.

Fill in the coupon NOW and give your New-Mix business an added impetus and win a cash prize as well.

### COUPON

To GILMONT PRODUCTS, Ltd.,  
35 CRUTCHED FRIARS, LONDON, E.C.3

Please send me Window Display Matter which I understand entitles me to compete in New-Mix Window Show Cash Prize competition. A two weeks' full—or half—Window Display will be made commencing.....

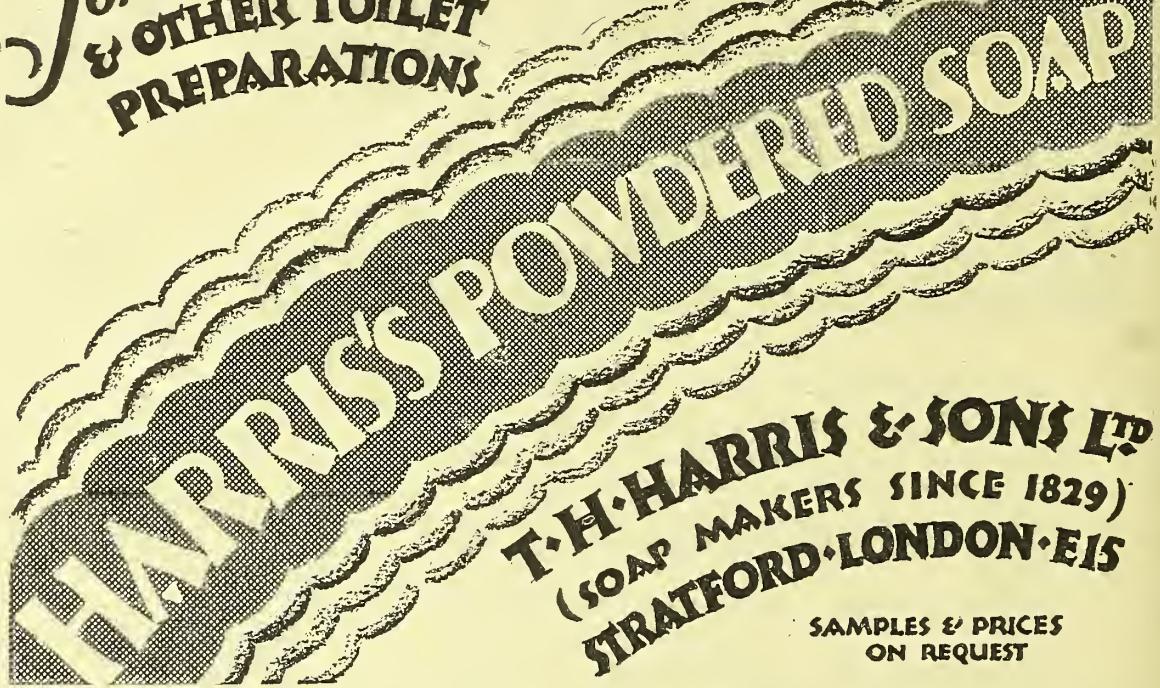
Name.....

Address.....



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*for SHAMPOOS  
& OTHER TOILET  
PREPARATIONS*



### G. B. KENT & SONS, LTD.

Are known the World over as  
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### BEST BRITISH BRUSHES

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BIG PROFITS  
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Obtainable from all Leading Wholesalers.  
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C/O ROEBUCK'S Advertising Service  
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"THE GLEAM OF YOUTH  
ON EVERY TOOTH"



SEE  
PRECEDING  
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GILMONT PRODUCTS, Ltd.  
35 CRUTCHED FRIARS, LONDON, E.C.3

# Maw's Page

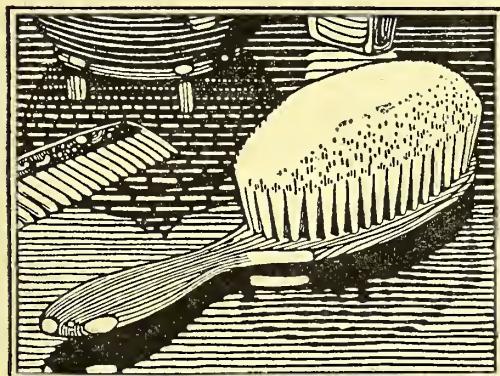


## "Meritor" for Holidays

Holiday time is hair brush time, especially "Meritor" hair brush time. And the holiday season is just starting. Nobody going on holiday likes to take a dowdy, worn hair brush to the seaside hotel or boarding house, and many a brush can be sold by a timely reminder during the next few weeks.

And of all hair brushes, the most satisfactory the pharmacist can sell is the "Meritor," because there is a wide range of patterns, materials and prices; because every

sale yields 50% on cost and because when you sell a "Meritor" brush you make a permanent customer for the pharmacy, as "Meritor" brushes, like all Maw's goods, are sold only to pharmacists.



S. Maw, Son & Sons, Ltd.,  
Aldersgate St., London,  
and Barnet.



B.P.C.

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## A Chemist's Letter

"We have now been informed that the N.H.I. sample of Boric Lint about which I wrote you on April 2nd last is quite satisfactory.

"We are perfectly satisfied with the result, and it is certainly gratifying to handle your Dressings after samples have been taken."



## "COTTON POD"

Regd.



## DRESSINGS ARE RELIABLE

For Prices please refer to our Monthly Supplement or write to—

SOUTHALL BROS. & BARCLAY, LTD.  
19/21 LOWER PRIORY, BIRMINGHAM.



# Big Advertising campaign for the new solid form of Lysol.

*Orders now being supplied in strict rotation.*

*Send yours to-day*

*Many thousands of pounds to be spent during next few months*

The Public is always ready for a better way of doing things. Already they have "got wind" of the convenience of this better form of Lysol. Orders and bigger repeat orders have been coming in without any advertising at all! Now the great power of the Press is going to pull its full weight. The public are going to be told in large advertisements that one handy Lysol Tablet exactly equals half a teaspoonful of Lysol. No more messy measuring, no tainting of spoons, no danger of using wrong quantities, no possibility of breakage. The public will insist on this more convenient way of using the world's best antiseptic and disinfectant. We are manufacturing to our utmost capacity, and already larger premises are planned. In the meantime orders are being despatched in strict rotation. Send yours without delay.



# Lysolats (LYSOL TABLETS)

Tins of 40 (Selling at 1/3)  
Wholesale Price : **10/6** ...per dozen

Tins of 80 (Selling at 2/-)  
Wholesale Price : **18/-.....** per dozen

## SOLIDOL CHEMICAL LIMITED

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# PINE TAR WET SHAMPOO

**"MEDICATED"**



Manufactured throughout at our Factory from PURE Selected Vegetable Oils. Highly recommended in cases of Dandruff and kindred troubles.

Still the only Tar Shampoo on the Market that is clear and of a syrupy consistency.

**A valuable hair preparation which you can sell with confidence under your own name**

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NOW!*

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Ayrton, Saunders & Co. Ltd., Liverpool, Eng.

# PRECIPITATED CHALK

**LIGHTEST, MEDIUM, DENSE**  
And All Other Grades To Suit Every Purpose  
**CHEMICALS FOR ALL INDUSTRIES.**

Phone: Central 4613.

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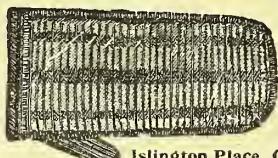
**A. LEVERMORE & CO., LTD.** ABC Codes  
8-10 GT. ST. HELENS, LONDON, E.C.3 5th & 6th Editions

## FRED<sup>K</sup>. FINK & CO.

10 &amp; 11 MINCING LANE, LONDON, E.C.3.

TEL.: ROYAL 5094.

GUMS, ARABIC and TRAGACANTH as Imported or  
Finely Powdered. :: SHELLACS ALL GRADES.



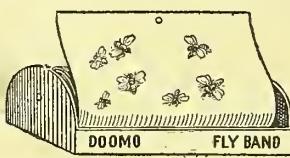
Specialists in the Manufacture of—  
**HORSEHAIR FLESH GLOVES,**  
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Wholesale and Export.  
**LAWRENCE & CO.**  
Islington Place, Cludesley Road, London, N.1.



**SHADEINE**  
For COLOURING GREY HAIR  
This popular article is largely advertised and stocked by all Wholesale Houses. Trial size 8d. per doz. 6/-  
1/4 size, per doz. . . . . 12/-  
2/6 size, per doz. . . . . 24/-  
3/9 size, per doz. . . . . 36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2.

**T. SHERBORNE & CO., LTD.**  
Surgical Appliance Manufacturers,  
ABDOMINAL BELTS, SPRING TRUSSES, ELASTIC BAND TRUSSES, SUSPENSORY BANDAGES, &c.  
Phone: Syd. 517.1 Wholesale & Export only. [Est. 1903.  
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**THE DOOM OF THE FLY**  
"DOOMO" FLY BAND.  
wide and long,  
also narrower one.  
**SMITH & CO.**,  
Doomo Works, NEWARK.

**GREY HAIRS**  
← appear just here.  
TOUCH THEM UP WITH  
**TATCHO-TONE**  
and they will instantly recover their natural shade. Medical Guaranty with each bottle. Chemists' Prices 2/6 and 4/6  
**TATCHO-TONE CO.**, 5 Great Queen Street, London, W.C.2



**CREAMS**  
**POWDERS**  
**SHAMPOOS**  
Any Grade  
,, Colour  
,, Perfume  
,, Quantity.

All kinds supplied in Bulk or in own Containers at less prices than you can make yourself.  
**RICHARDSON & LACY**, 78 Hop Exchange, Southwark St., S.E.1

**PUFFS** of ALL KINDS in DOWN and WOOL.  
**SOLID FACE POWDERS**  
COMPLETE WITH PUFFS.  
Inquiries invited by makers,  
**F. SCHUTZE & CO., Ltd.**  
BLACK BULL WORKS,  
Caledonian Market, London, N.7.

NOT AFFECTIONED BY D.D.A. REGULATIONS AND RECOMMENDED BY MINISTRY OF AGRICULTURE.  
**FARMER'S "BAITED" RAT PASTE**  
is worthy of mention to the vermin infested. SELLS WELL and does its work.  
Please try a stock through any distributor.  
NEVER FAILS.  
JARS 4d., 7d., 1/3 ;  
LARGE TINS 4/-  
OF ALL CHEMISTS.

**THE CHEMIST'S MONOPOLY—**  
**P.P.T.** Py-SHAN POINTS TEA  
SECURES YOU REGULAR CUSTOMERS  
5d. per lb. PROFIT or 7d. per lb.  
when cash accompanies order.  
**THOS. CHRISTY & CO.**, 4/12 Old Swan Lane, E.C.4

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Telegrams: "Coate, Axminster."

## COATE & CO. (Axminster) Ltd.

The London Brush Works, Axminster, Devon.

Estab. 1847.

Manufacturers of Super British Brushes

Our Special "PROPHYLACTIC" Tooth Brushes

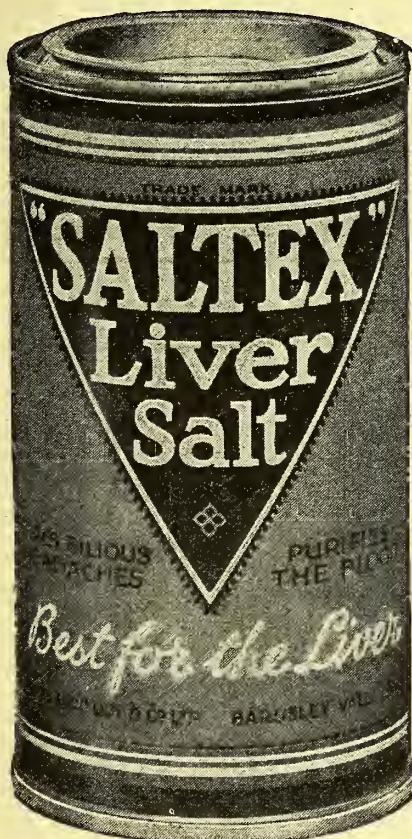
3 row Hard, Medium, Soft, Yellow Hair @ ...	... ...	16/- per dozen
4 "	..."	18/- "

Orders for one gross supplied in Cartons with customer's name and address free.  
Every Brush Guaranteed. British made by British Labour. Send for our present list of prices.



# THE Liver Salt

## *for the Pharmacy*



IT pays the Chemist to display and recommend "Saltex" because it is a distinctively pharmaceutical product, both as regards quality and sales policy. "Liver Salt" is included all too frequently in the weekly grocery order and a trade built up by Chemists is passing very largely into other hands.

Educate the public to the advantages of "Saltex"—not obtainable from all and sundry but from YOU.

Try the effect of a "Saltex" display. The outlay is small and the return considerable. With orders for 6 dozen tins a display bonus is included which makes "Saltex" an exceptionally attractive proposition. Specimen tin and full particulars on request.

*Kerfoot Quality  
is Chemists' Quality*

THOMAS KERFOOT & CO LTD.  
BARDSTLE VALE, LANCASHIRE,  
& Bardsley House, London, N.1  
ESTABLISHED 1797.

C/492

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# LIME OIL

(W.I. Distilled.)

**Finest quality at favourable prices**

*Write:*

**White, Tomkins & Courage, Ltd.**  
North Albert Works, Reigate, Surrey.

*Lemon Oil : Orange Oil : Bergamot Oil :  
Mint Oils : Buchu Oil : C.16 Aldehyde*



**Chemical Works "Flora"**  
DUBENDORF, ZURICH SWITZERLAND

*Manufacturers of*

**SYNTHETIC & AROMATIC  
CHEMICALS**

SAMPLES ON and  
APPLICATION.

**CHLOROPHYLL**  
OIL AND SPIRIT . . . SOLUBLE.

STOCKS HELD  
IN LONDON.

*Samples and particulars from—*

**CHAS. ZIMMERMANN & CO. (Chemicals), LTD.**  
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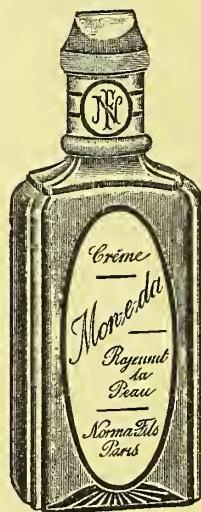
**SEASONABLE LINE**

*makes*

**SATISFIED  
CUSTOMERS**

**Mon-e-da**

**COMPLEXION  
BEAUTY CREAM**



Rejuvenates the skin and  
complexion.  
Safeguards against effects  
of sun and wind.  
Admirable foundation for  
Powder.

*Sizes: 4 oz. 6 oz. 8 oz.  
Prices: 12/- 16/- 20/- doz.*

Also MON-E-DA SKIN FOOD  
"Feeds the tissues"  
10/- 15/- 18/- doz.

**WALDEN, WALDEN & Co.**

*Toilet Preparation Manufacturers,*

15 GRAPE ST., NEW OXFORD ST., W.C.1

# A New Bristow Profit Bringer!

## Rose of England Toilet Series

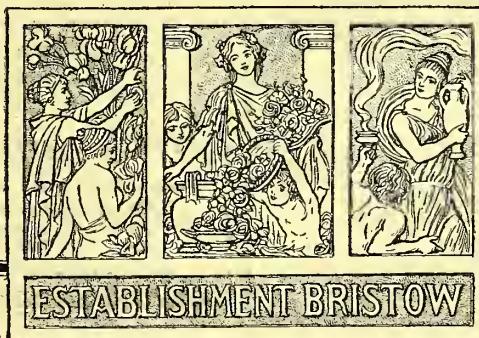
A REFRESHING, distinctive, invitingly packed Toilet Series—competitive in price and backed by Bristow traditions of quality and purity.

Why not be the first in your district to introduce it, and take advantage of our introductory bonus offer?

Samples, Prices, Trade Terms and Bonus particulars will be gladly sent you on request by return.

**T. F. BRISTOW & CO LTD**  
Colindale, Hendon NW9.

Telephone :  
Colindale  
6291 & 6292



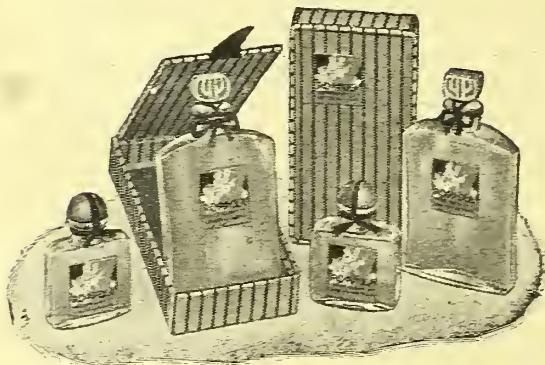
Telegrams :  
"Flovalium,  
Phone,  
London."



## TO REMIND YOU that—

PAPIER POUDRÉ and the POPPOEA PREPARATIONS being vigorously advertised, are an opportunity for you to make BIG PROFITS, and at the same time to interest your customers with a really striking and artistic display. These products sell First on appearance and Repeat on quality.

*Write for particulars  
of our special offers.*



*Sole Manufacturers:*

**PAPIER POUDRÉ Ltd.**

46 BAKER STREET  
LONDON  
W.I.



## Bond Street Shampoos that bring bigger Profits

Stewart's Tone Shampoos have been used in their Bond Street Salons for years, and always with success. The full range is now available for universal distribution — Hairtone, Hennatone, Pinetone, Goldentone, and Silvertone for Grey Hair. This line is something quite exceptional in shampoo powders—shampoos that have been tried and tested by actual everyday use in first-class establishments, and that you can sell for little more than half the price charged for other shampoos.

This is a chance for you to make money and goodwill—the line shows you an exceptionally good profit and it *always* brings customers back again and again.

	Retail Price	Net Wholesale Price
Stewart's Hairtone Shampoo Powder ..	3d. each or 1/6 for 7 sachets	12/- per dozen boxes of 7
	Free from excess of alkali for any kind of hair.	
Stewart's Goldentone Shampoo Powder ..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
	A Camomile preparation for blonde hair which brightens and beautifies.	
Stewart's Silvertone Shampoo Powder ..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
	Specially prepared to keep grey hair from going yellow.	
Stewart's Hennatone Shampoo Powder ..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
	For brown hair—gives richness of tone.	
Stewart's Pinetone Shampoo Powder ..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
	Medicated and antiseptic for impoverished hair.	

MADE BY THE MANUFACTURERS OF

**NUCTONE  
FOR GREY HAIR**

STEWART, GOODALL & DUNLOP, LIMITED,  
4 Dering Street, London, W.I.

*Obtainable from your usual Wholesalers or direct from*  
**J. C. GAMBLE & CO., LTD.**  
211/215 BLACKFRIARS ROAD, LONDON, S.E.1.

**FOUR GOOD POINTS**

- 1 Supplied to Chemists only.
- 2 Shows a clear profit of 30% on selling price.
- 3 Retails at 3d. per 6 oz. tablet.
- 4 Good selling lines appealing to all classes.

**GERARD BROS. Ltd.**  
SOAP WORKS,  
NOTTINGHAM.

**FOUR GOOD SOAPS**

Gerard's WHITE CURD  
Gerard's COAL TAR  
Gerard's PURPLE CARBOLIC  
Gerard's WHITE WINDSOR

**MERCOLIZED WAX**  
— : for the Complexion : —  
and  
**STALLAX**  
— : a Shampoo : —

**T**WO substantial and well-advertised lines which show a handsome profit to the Retailer, and, moreover, may be stocked fearlessly owing to the Manufacturers' most liberal Sale or Return Guarantee.

**Both** are obtainable in two sizes, and their reputation and sterling value assure a steady turnover.

*Order through your Wholesaler, or direct from:*

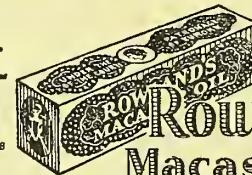
**DEARBORN (1923) LIMITED**  
**37 GRAY'S INN ROAD, LONDON, W.C.1.**

**KIRBEE**  
RAZOR BLADES  
5 FOR 1/-  
**DOUGLAS KIRBY & CO., LTD.**  
9 & 10 CHABING CROSS, LONDON, S.W.1.  
Telephone : Gerrard 8063, 8064 and 8065.

**BRITISH MADE**  
A Repeat Line.  
**Customers Come Back for More**  
20 packets sold in one shop in 4 days.  
Retailer writes :—  
"Am pleased to say KIRBEE BLADES are being spoken very highly of by my customers. Send further supply."  
Letters as above received daily.  
WRITE FOR TRADE TERMS.

# Tried & Proved

Rowland's Macassar Oil is no new preparation; it has been used all over the world for more than 135 years and everywhere it is held in the highest esteem. It is guaranteed to contain no injurious substances.

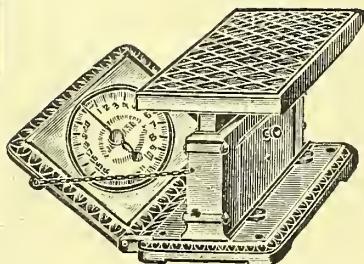


A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1  
RM4T

# THE "JARASO"<sup>TM</sup> PERSONAL WEIGHING MACHINE (Portable)

BRITISH  
MADE





Your weight is reflected in the mirror. Weighs up to 20 stone—Guaranteed accurate, but can only be sold in Great Britain and Ireland or Exported to the British Colonies only.

LIBERAL TRADE TERMS from

**ALBERT C. SHOPPEE, Ltd.**  
Belmont Street. Chalk Farm. LONDON. N.W.1

**RETAIL PRICE IN ENGLAND**

**39/6 each**

# NOTICE OF CHANGE OF ADDRESS

**I**N these days of business progress it is the greatest concern of any house, with a great and growing national business, to study the demands of its customers with ever increasing watchfulness.

In order better to serve your interests we have decided to concentrate all our departments under one roof. We have, therefore, erected up-to-date and commodious offices at our works at Isleworth, and on

## Saturday next, June 9th

we shall vacate our offices in New Oxford Street. From that date all communications should be addressed to

## A. & F. PEARS LTD., Isleworth

In making this move we shall be bringing our Production, Advertising, Selling and Business Departments together, and we have every confidence that this will result in our being able to give you a maximum of service.

We shall be most pleased to see any of our trade friends at the new offices whenever they may be in the neighbourhood, and in order that we may be able to welcome them, we would ask them kindly to give us notice of their intended visit.

## A. & F. PEARS LTD.

# ROBERT FERBER, LIMITED.

SOLE AGENTS IN THE  
UNITED KINGDOM FOR SALOMON'S

## GENUINE LEMON JUICE SOAP

No. 548

Packed in boxes of 3 tablets, 24/- per doz. boxes. Minimum retail price, 2/9 per box, 1/- per tablet. There are a number of imitations of this Soap on the Market, in shape and size identical, but in quality much inferior. The name "GENUINE LEMON JUICE SOAP" and the number "548," are both registered. The Band round each Tablet bears the name and number, without which none is genuine.



## SALOMON'S LEMON JUICE CREAM THE NEW SKIN TONIC.

A superior toilet cream, non-greasy, suitable for both winter and summer use, which enjoys a ready sale, wherever introduced.

Packed in opaque porcelain jars, each in a decorated Carton.

10/6 per dozen jars.

Minimum retail price 1/6 per jar.

Also in Decorated Collapsible Tubes, 6/6 per doz.

*Both these lines are on P.A.T.A.  
Showcards and Price Tickets Free.*

**CARLTON WORKS, ASYLUM ROAD, LONDON, S.E.15**

## WIN X

THE HARMLESS WATERPROOF EYELASH DARKENER  
IN BLACK OR BROWN

Per 26/- dozen. Retail 3/3 each

CREAM

## WIN X

FOR THE LASHES AND EYEBROWS  
IN BLACK OR BROWN

Per 26/- dozen. Retail 3/3 each

CAKE

## WIN X

COSMETIC FOR DARKENING  
IN BLACK OR BROWN

Per 26/- dozen. Retail 3/3 each

## PERT

THE WATERPROOF ROUGE

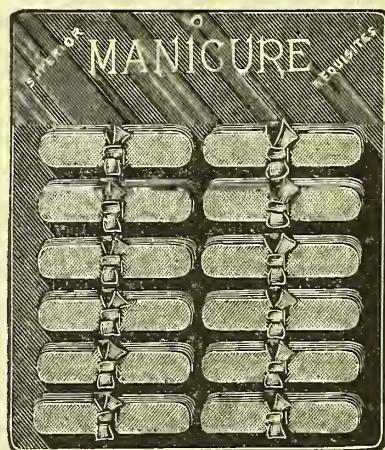
Per 26/- dozen. Retail 3/3 each

MADE BY THE ROSS CO., NEW YORK.

Sole Distributing Agents:  
OSBORNE, GARRETT & CO., LTD.  
London, Birmingham and Glasgow.

## "Buying Foreign" is not necessary

*We can meet competitively all Druggists'  
Sundriesmen's requirements*



IN  
MANICURE  
GOODS,  
ORANGE  
STICKS, &c.

Carded  
& Boxed

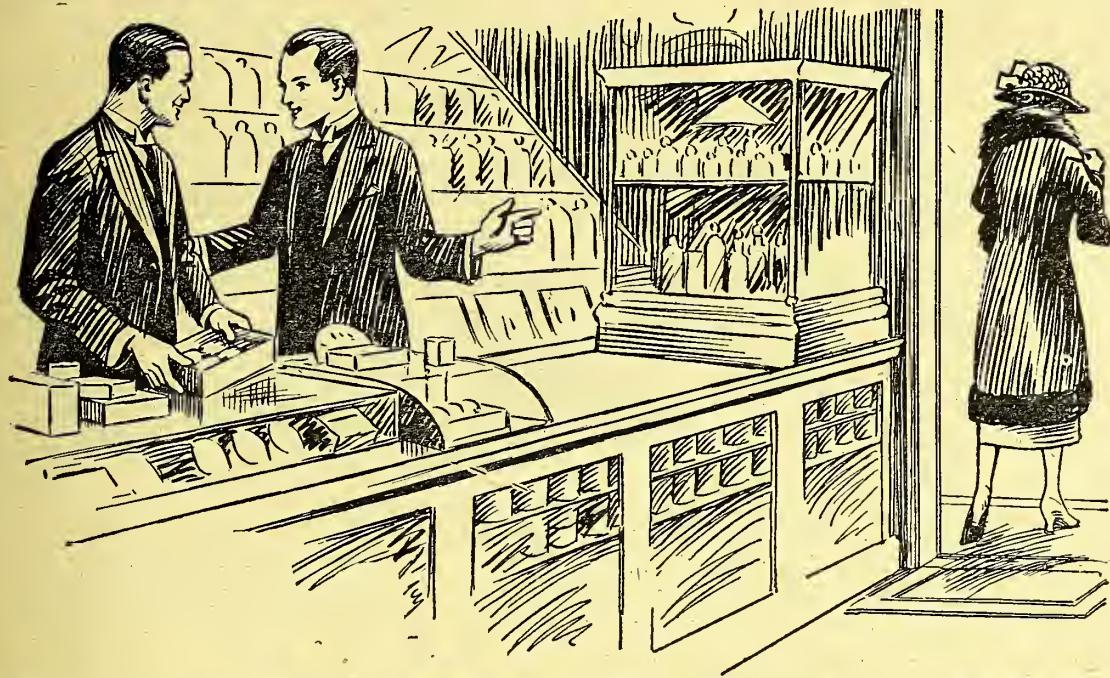
Wholesale  
and Export  
Only.

*Send your  
enquiries  
now to the  
English  
makers—*

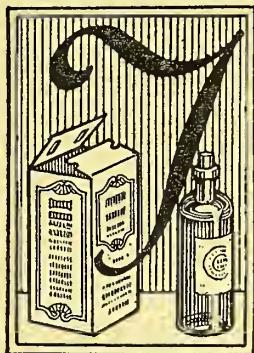
## ROBERT LEE

14 Calverley Grove,  
Upper Holloway,  
London, N.19

Telephone : Mountview 7811



## It was the label that sold it



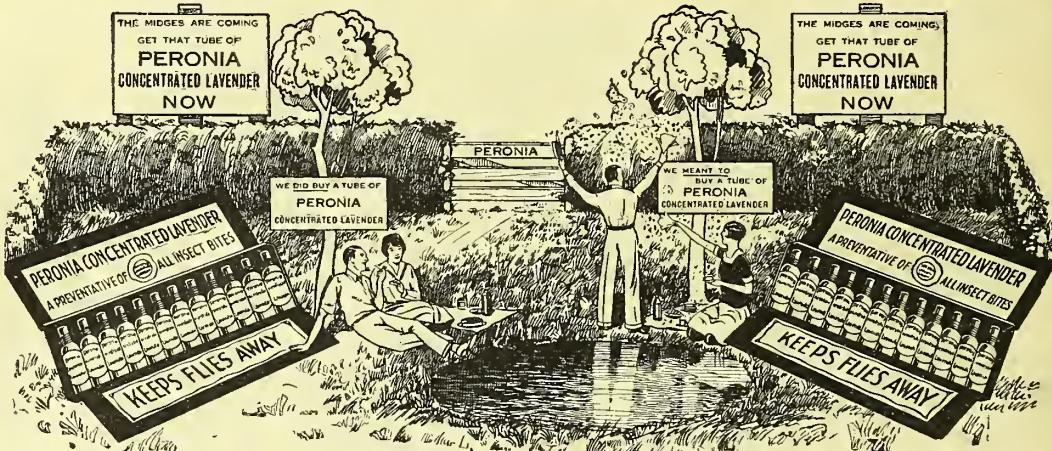
THE public attraction of a label, carton, or wrapper is the big selling force that buyers of printing matter must carefully consider when ordering new lines. How often has a good article lost sales through the cheap looking appearance of the wrapping?—and it all depends on the choice of the Printer.

Throughout the trade, Thomas Waide & Sons Ltd., the Chemists' Printers, of Leeds, have established a reputation for Good Printing. Hundreds of satisfied clients will tell you how they have profited by the efficient handling of their printing orders by Waides.

*An Enquiry will cost you nothing—obtain an estimate from them for your next Printing requirement.*



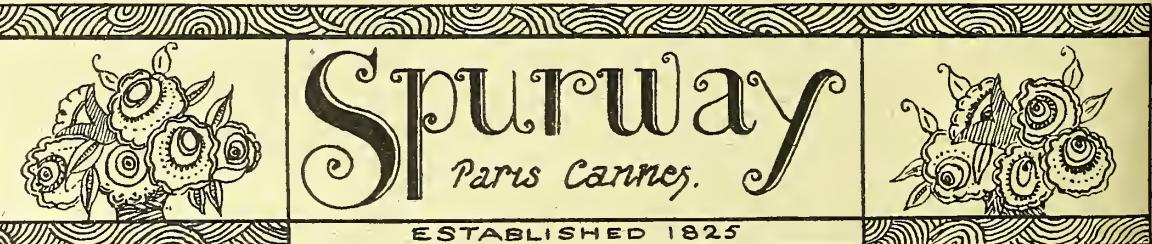
**THOMAS WAIDE & SONS LTD.**  
*The Chemists' Printers*  
**LEEDS**



## UNPREPARED

The hot weather at Whitsun found so many chemists without their stocks of Peronia Concentrated Lavender that we had great difficulty in executing all the urgent orders promptly. A warm spell and the above model, which is sent with 6 doz. 1/- tubes at 8/- doz., immediately compels our chemist friends to ask for more.

**THE PERONIA CO., LTD., NOTTINGHAM**



## OUR EXCLUSIVE FRENCH NOVELTIES

POSSESS THAT INDEFINABLE TOUCH OF  
ORIGINALITY AND TONE WHICH GIVE  
ADDED PRESTIGE TO THOSE WHO  
ARE FORTUNATE ENOUGH  
TO HANDLE THEM

WRITE FOR LIST

89 GREAT EASTERN ST.,  
LONDON, E.C.2



## "ODENTIC" PLATE BRUSH

Regd. No. 417637.

From all  
Wholesalers.

Counter Display Box with every 3 dozen.

Manufacturers:

**W. R. Speer & Son**

(EST. 100 YEARS)

215 DALSTON LANE - - LONDON, E.8

All kinds of  
thoughtful  
display*Manufacturers!*YOUR GOODS  
DISPLAYED & SOLD  
TO BEST ADVANTAGE

## "NEW PATENT STAND-SHOWCARD"

In one piece!  
Self-fixing!!  
Packs flat!!!

Over 1,000,000 in use



*The SHOWCARD  
SPECIALISTS*  
27 Goswell Rd, London, E.C.1.  
Phone: Clerkenwell 4283

*Let us design  
and quote you.*

## NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

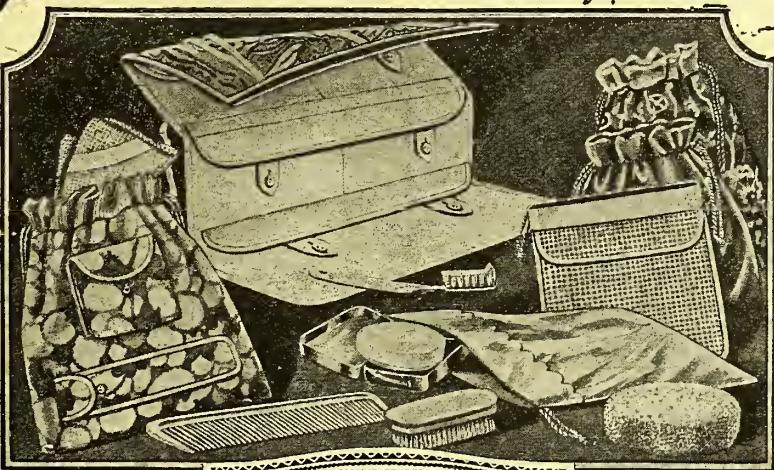
**OSCAR SCRUTON & CO., YORK**

*For the  
holiday  
season*

**Portia**  
Regd.

## Sponge Bags & Holdalls

in every pattern that sells.



MANUFACTURED IN  
HYGENIC FACTORIES BY  
**SOLPORT BROTHERS LTD**  
184-190, GOSWELL ROAD,  
LONDON, E.C.1.

WRITE FOR OUR LATEST CATALOGUE.





## Every Bathroom needs a Sorbo

EVERY man, woman and child in every family either uses a Sorbo Sponge, or needs one.

This splendid line of Rubber Sponges is finding its way into fresh homes daily, and every new Sorbo customer means extra turnover and bigger profits for you.

It is British in manufacture, and unequalled in quality. It improves with soaping, and it never gets slimy. That's why it is so popular with every member of the family, from Baby upwards !

# Sorbo sponge

THE MOST ABSORBENT RUBBER-SPONGE

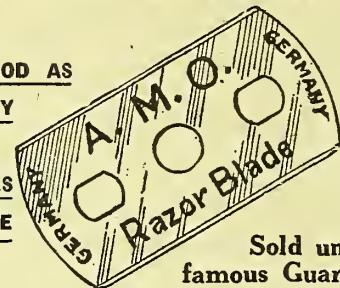
Order now from your Wholesaler.  
If any difficulty, write us. Price List  
and Trade Terms on application.

SORBO RUBBER-SPONGE PRODUCTS, LTD.  
Sorbo Works, Woking, Surrey.  
Telegrams: "Sorbo, Woking." Telephone: Woking 966 (2 lines)

# AMO BLADES

Gillette Type RAZOR  
ARE NOW BEING MANUFACTURED  
from FINEST SHEFFIELD STEEL

AS GOOD AS  
REALLY  
GOOD  
BLADES  
CAN BE



THEY  
SHAVE!  
THEY  
SELL!

Sold under our famous Guarantee of  
**SATISFACTION or Cash Refunded**

For advertisement purposes and to give ample opportunity for test of the NEW IMPROVED AMO BLADE, made in Germany from FINEST SHEFFIELD STEEL, we have decided to extend our FREE GIFT BONUS SCHEME of 3 DOZEN BLADES FREE with each gross ordered UNTIL SEPTEMBER 1st, 1928. This will enable regular customers of Amo Blades to enjoy the extra profits derived thereby, and give those who have not yet stocked this splendid blade an extended opportunity to obtain their supplies with Free Bonus.

**ORDER NOW** Per Gross Post Paid **8/-** Per Gross Post Paid

L. FRANKENBERG, 125 HOUNSDITCH,  
LONDON, E.I.  
Phone : Av. 8846. (Established 15 years.)  
Grams: Uze Carnos Ald. London.



*a Good  
Blade!*

We make no exaggerated claims on behalf of our product, but instead we sell

# "ECLIPSE"

(Gillette Type)  
SAFETY RAZOR  
BLADES

under a definite money-back guarantee of satisfaction, particulars of which will be sent on request.

**EVERY CHEMIST SHOULD STOCK THEM.**

1 Box 100 Blades at £1 2 3 per box

5 Boxes " at £1 1 8 "

10 " " at £1 0 10 "

Terms: Monthly, less 2½%. Carriage paid on 3 box lots and above.

**JAMES NEILL & CO. (Sheffield) Ltd.**

Crucible Steel Manufacturers,

NAPIER STREET - SHEFFIELD.

## WHY PAY FANCY PRICES FOR BRANDED OLIVE OIL?

WE CAN  
SUPPLY

# PURE LUCCA CREAM OLIVE OIL

Packed and Filtered at the Refinery



# MARTINELLI

NO  
SEDIMENT

## BRAND

NO  
LOSS

IN CASES CONTAINING

10 X 1 GALLON DECORATED TINS fitted with  
Patent Detachable Pourer Spout facilitating rapid  
filling without spilling.

EX STOCKS AT LONDON, LIVERPOOL AND GLASGOW AT  
PRICES MUCH BELOW COMPETITION.

**ASTOR, BOISSELIER & LAWRENCE**

5 & 6 ST. DUNSTAN'S HILL,  
LONDON, E.C.3

Phone: Royal 1993 & 2152

47 MARKET STREET,  
MANCHESTER

Phone: Central 753

"DEPENDABLE  
TOBACCO  
WHOLESALEERS."

SINGLETON & COLE, LTD., CANNON ST., BIRMINGHAM

MIXED PARCELS A SPECIALITY  
Established Fifty Years.

Price Lists mailed on request.  
A PROFITABLE SIDE LINE  
FOR CHEMISTS.

Ask for "PAZO"  
**PILL BOXES**

The most convenient and  
secure Pill Box obtainable.

**NO LOOSE BOTTOMS**

Samples and Prices on application

The "PAZO" CO., Oldbury

**BOB MARTIN'S  
TASTELESS  
CONDITION POWDERS**  
show a profit of 38%

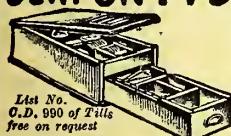


and are advertised in daily papers having a combined sale of more than SEVEN MILLIONS a day.

For 19/6 you can obtain a good selection of Bob Martin preparations and a supply of attractive display matter.

BOB MARTIN LTD., SOUTHPORT, LANCS

**SENT ON 14 DAYS APPROVAL**



upon receipt of cash or two wholesale trade  
references. "LITTLE BRILLIANT" TILL  
Improved 16 x 8½ x 6 ins.  
mahogany, highly polished, lock  
to lid and drawer, warning bell,  
secret catch and check action.

Calls 2½ ins. wide 4/- doz.

DUDLEY & COMPANY, LTD.,  
558-576, Holloway Road, London, N.7.

**32/-**

**CHEMISTS' FITTINGS**

OF EVERY DESCRIPTION.  
NEW AND SECONDHAND.

E. BERG, LTD., 336 Old Street, E.C.1

**"Wimaco" Specialities, British and Best.**

**HOT WATER BOTTLES**—Grey and Red. Finest quality heavy weight rubber

INSIST ON WIMACO MONARCH SEAL BRAND (Regd.). THERE IS NO SUBSTITUTE FOR WIMACO.  
WINCHESTER MANUFACTURING CO., LTD., ISLEWORTH, MIDDLESEX



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# NEWS OF THE WORLD

\* Write for a copy of "A Gilt Edged Investment," which gives details of Mr. Drage's experience, to the Advertisement Dept., 30 Bouverie St., London, E.C.4.



- \*Moorland sales are still growing  
*a regular increase every week*
- \*Their growth is rapid & continual  
*sales are quick, constant & profitable*
- \*They make regular weekly profits  
*pharmacists know their value*
- \*They are absolutely dependable  
*being a good and reliable product*
- \*They're always profitably sold  
*to a large and satisfied public*
- \*They are very firmly established  
*as the best sellers of their kind*
- \*The showmatter makes the sale  
*heaps of it with every order*

ORDER NOW—AND KEEP BUSY. ONE DOZEN 4/6; ONE GROSS 51/-; RETAIL 7½d.

W. B. CARTWRIGHT LTD. RAWDON NR. LEEDS

# POTTER & CLARKE

Manufacturing  
Chemists

The Sign of  
The Winged Lion



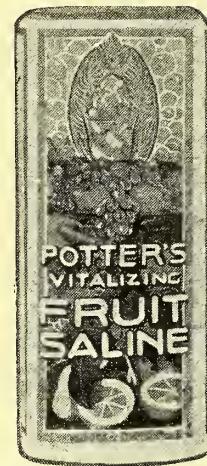
Drap. LIMITED  
Merchants

Registered  
Trade Mark

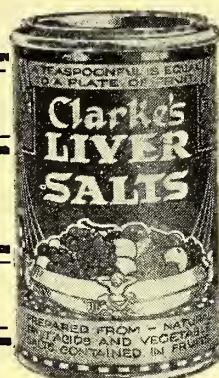
## POTTER'S *Vitalising* FRUIT SALINE

This preparation provides an all-the-year-round best seller. Prepared with natural fruit acids and vegetable salts and guaranteed free from sugar, Epsom Salts and Glauber Salts.

Well turned out in an attractive colour wrapper, it makes an immediate public appeal.



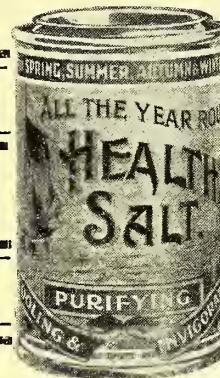
8 oz. bottles  
(retail 1/9)  
13/- - doz.  
4 oz. bottles  
(retail 1/3)  
8/6 - doz.  
Attractive show  
matter with all  
orders.



### LIVER SALTS

4 oz. tins - - 5/- doz.  
3 doz. lots - - 4/9 doz.  
1 gross lots - - 4/6 doz.

Handsome Showcard  
with all orders.



### HEALTH SALT

4 oz. tins - - 4/9 doz.  
Gross lots - - 4/3 doz.  
1/- bots. (4 oz.) 7/6 doz.  
1/6 , (8 oz.) 12/- doz.

Phones  
Bishopsgate,  
4761 (5 LINES)

Potter and

Clarke Ltd.

Grams  
Horehound  
Phone, London

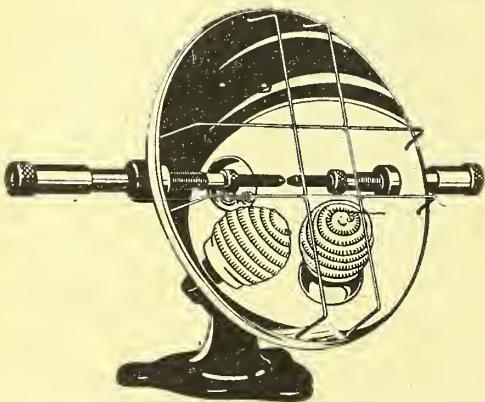
60-64 ARTILLERY LANE, LONDON, E.1.  
MANCHESTER: 24 Luna St., Gr. ANCOATS.



*Wanted:*

Demonstrating and Distributing Agents  
FOR THE  
**'QUAIN' SUNLIGHT BATH**

*Big Profits and Attractive Selling Terms.*



THE important part played by Ultra Violet Rays in preventing disease and producing Vigorous Health—both physical and mental—has created a big demand for a good reliable Sunbath for Home use, which is simple, safe and efficient, yet reasonable in price.

The "QUAIN" SUNLIGHT BATH is the ideal Sunbath for this purpose, and has the unique feature that when switched off as a Sunbath, instantly becomes a splendid heating radiator.

Every chemist is recommended to obtain at once a Demonstration Outfit.

The Outfit is sent, together with a supply of literature, showcards, etc., on receipt of 20/- deposit.

Selling Price £5 10s. Complete (including goggles, spare Carbons, etc.), or 20/- down and 5 monthly instalments of 20/- (special order forms supplied for deferred payments).

The chemist has no responsibility for collecting deferred payments.

**27/6 clear profit to you on each outfit sold (cash or deferred).**

A little enterprise in demonstration, especially in your window, will enable you to sell 20, 30, or 40 outfits per week. The demand is remarkably keen at present.

OUR PUBLICITY CAMPAIGN inviting the Public to purchase from their local Chemists commences in the "Daily Mail" and other newspapers on June 12th.  
*Have your Demonstration Outfit ready.*

*Do not miss this Great Opportunity*

Remember the "Quain" Sunbath is as valuable in Summer as in Winter. Now is the time to sell them.

*Write to-day to Sole Patentees and Manufacturers:*

**BRITISH QUAIN SUNLIGHT, LTD.**

20/21 Laurence Pountney Lane, Cannon Street, London, E.C.4.

Phone : - - - CITY 8457.

## Providing Tea—A Picnic Problem

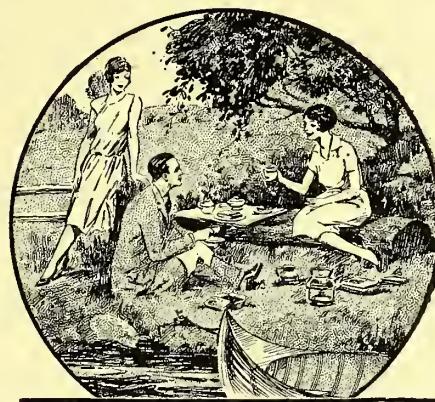
'TABLOID' TEA and 'TABLOID' 'SAXIN' solve the difficulty of providing tea for the picnic party.

TRADE MARK

**'Tabloid'**  
BRAND  
**TEA**

TRADE MARK

**'Tabloid'**  
BRAND  
**'SAXIN'**



### June to September

The outdoor months. The days for walking, motoring, boating, tennis, etc., etc., and with each the alfresco meal. These months provide golden opportunities to sell

### 'TABLOID' TEA AND 'TABLOID' 'SAXIN'

The most convenient and portable means of preparing a delightful cup of tea.

**'TABLOID'  
'SAXIN'**

gr.  $\frac{1}{2}$ : bottles of  
100, 200 and 500,  
12/6, 23/6 and 54/6  
per doz. respectively  
(subject)

#### 'TABLOID' TEA

Boxes of 100, 10/9;  
and 200, 18/- per  
doz. respectively  
(subject)

#### Special Blend

Boxes of 100, 16/-  
per doz. (subject)

### In the home

'Tabloid' Tea will be found ideal for making the early morning or afternoon cup of tea. If necessary a teapot may be dispensed with, the infusion being made direct in the cup. Test it in your own household.



BURROUGHS WELLCOME & CO., LONDON

# The Public want and need Purest Aceto-Salicylic Acid

Sell them the "UCAL" Brand: the only Brand reserved exclusively to Pharmacists.

Profitable and protected prices—what better inducement for a really sound and guaranteed product.

*TERMS:*

Bottles of 25 ....	Retail 9d.	Cost 3/6 doz.
"    50 ....	"    1/3	"    5/6 "
"    100 ....	"    1/9	"    8/3 "

*Good Cut-out Showcard* - - - *Handsome Show-outers*

**UNITED CHEMISTS' ASSOCIATION, LTD.**  
CHELTENHAM

(Phone 3021)

and 4 and 6 KEITH GROVE, LONDON, W.12.

Telephone: "RIVERSIDE" 3762.

## BURT, BOULTON & HAYWOOD, Ltd.

*MANUFACTURERS OF*

**APPROVED DISINFECTANTS** for use in districts affected with Foot and Mouth Disease.

**SHEEP DIPS** approved by the Ministry of Agriculture, under the Sheep Scab Order.

**DISINFECTANTS** of guaranteed Co-efficiency for local Municipal contracts and sale under own name and Brand.

**LYSOL 50%** Cresols guaranteed.

**CARBOLIC POWDERS** containing 5% to 20% Tar Acids.

**PINE SANITARY FLUIDS** and **POWDERS**.

**NAPHTHALENE** in Flake, Candle, Tablet, Powder and Crystal form, also Scented and Coloured Blocks enclosed in wire cages.

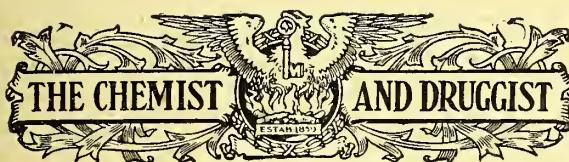
**"IALINE" ANTISEPTIC OINTMENT** for wounds, burns, sores, skin diseases, eruptions, etc., in 1s. 3d. and 9d. pots, also 1-lb. tins.

*Write for particulars of prices and details of arrangement for selling under own name to Burt, Boulton & Haywood, Ltd., Salisbury House, London Wall, London, E.C.2*

WORKS:—  
SILVERTOWN, LONDON, E.

Telephones { LONDON WALL 7569-73.  
                          LONDON WALL 3146-47.

Telegrams:—BURBOUL, AVE, LONDON



## A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

### SUBSCRIPTION RATE

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single copy, 9d., post free; *Diary*, 10s., post free. Postal Orders and Cheques should be crossed "Bank of Liverpool and Martins, Ltd."

TERMS FOR ADVERTISING may be obtained on application to Head Office: 42 CANNON STREET, LONDON, E.C.4

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Melbourne and Sydney, Australia.

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### Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

#### Sunday, June 10

London Chemists' Golfing Society, West Surrey course, Milford, near Godalming. Train from Waterloo at 9.10 a.m. Competition for the Burgoyne and Sanger cups.

#### Tuesday, June 12

Glasgow Pharmacy Club, Ladies' Golf Section, Springhall course, Burnside, at 3 p.m.

#### Wednesday, June 13

Manchester and District Pharmaceutical Golfing Society, Sandiway course. Gibbs' challenge trophy.

Pharmaceutical Society of Great Britain (Ipswich and Suffolk Branch), Barrack Corner, Ipswich, at 2 p.m. Charabanc trip to Colchester and West Mersea.

#### Thursday, June 14

West Ham and District Association of Pharmacists, motor-coach tour to Knole. Tickets (10s. 6d. each) from the secretary, Mr. J. Reed, 32 Church Street, West Ham.

## English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

### Merchandise Marks Act, 1926

A DRAFT of an Order in Council under Subsection (1) of Section 2 of the Merchandise Marks Act, 1926, to require the marking of imported glue (including glue size) and gelatin, also imported tooth-brushes and shaving brushes, has been laid before Parliament. Copies of the draft Order may be obtained from the Stationery Office, Adastral House, Kingsway, W.C.2.

### Lead Tetra-Ethyl Inquiry

The Committee which is inquiring whether the use of lead tetra-ethyl petrol is injurious to health took evidence at the Office of Works on June 6 from three well-known men of science. Sir William Pope, Professor of Chemistry at Cambridge University, said that experiments on animals were not comparable with similar experiments on human beings. Lead ethyl acted so violently on the central nervous system that no deduction could be drawn from the effects produced on low animals. Sir William Pope added that to obtain positive evidence as to whether the use of lead tetra-ethyl was injurious to health it would be necessary in his opinion to experiment on garage hands. Stringent regulations should be drawn up governing the use of lead tetra-ethyl, and something in the nature of a leaflet should be issued calling attention to the danger of its use. If experiments were made on garage employees by splashing petrol containing lead tetra-ethyl about their clothing a tremendous number of cases of poisoning would be discovered. Professor H. B. Baker also expressed the view that there was danger in the use of lead tetra-ethyl in petrol. If a man said there was absolutely no danger he would say to him, "Let us put some on your hand and see." He added that the poison would develop in about five days. Professor G. I. Finch, of the Imperial College of Science and Technology, said he had made experiments with motor exhaust gases from cars burning lead tetra-ethyl petrol, and had come to the conclusion that there was a real danger to the community, from the lead dust contained in these gases, especially in a congested area like London. It would probably be ten or fifteen years before the effect of the poison would be seen.

### Co-operative Congress Resolutions

At the Co-operative Congress recently held at West Hartlepool, a discussion took place with reference to the new Regulation of the Ministry of Health with regard to the dividends given by co-operative societies on Insurance dispensing. A report circulated among the delegates stated that there are now co-operative drug departments in about 100 areas in the country. There is a scale payment to the chemist of 5d. per prescription, "and many societies, therefore, give a dividend check to the member for 5d." "Be it remembered," the document continued, "that these people [the Retail Pharmacists' Union] are the principal constituents of the Proprietary Articles Trades' Association, and that they have persuaded the Government to adopt the P.A.T.A. principal against co-operative societies in administering an Act of Parliament." On the motion of Mr. A. V. Alexander, M.P., an emergency resolution was passed expressing dissatisfaction with the Minister of Health's Regulation, and demanding that the Regulation be immediately suspended. It also urged that the Minister of Health be requested to receive a deputation from the Parliamentary Committee of the Congress to discuss the situation. Another emergency resolution was passed condemning the boycott of the co-operative societies by the gramophone and photographic materials manufacturers, and urging the Government to take legislative action to prevent such operations being carried on to maintain monopolies and high prices.

### Contracts

The following tenders have been accepted by the bodies named:—

H.M. Office of Works.—W. J. Myatt & Co., Ltd., Birmingham, safety razors and blades.

London County Council.—Robert Bailey & Son, Ltd.; Arthur Berton, Ltd.; J. Bury & Co.; Carnegie Brothers; Cuxson, Gerrard & Co., Ltd.; T. J. Smith & Nephew, Ltd.; W. G. Taylor (Southall Brothers & Barclay, Ltd.); The Wardle Cotton Co., Ltd., surgical dressings, etc.

Slough Urban Council.—Mr. C. Sangster, chemist and druggist, drugs, etc.

Stourbridge & Halesowen Joint Hospital Committee.—Mr. G. V. Greenwood, chemist and druggist, Lye, drugs.

Whitby Guardians.—Taylors' Drug Co., Ltd., drugs, etc.

Whitby Urban Council.—Mason's Drug Stores, Ltd., chemists, drugs, etc.

### Fires

The following outbreaks of fire have been recorded since our last report:—

Owing to an overheated flue, there was an outbreak of fire recently at the premises of Mr. E. A. Neill, chemist and druggist, Colwyn Bay, but the damage was not of a serious nature.

A light thrown down resulted in an outbreak of fire on June 2 at the premises of Barkers Cash Chemists, Upper Tooting Road, London, S.W.17. The flames were soon under control and the damage was not considerable.

A part of the premises occupied by A. Bourjois et Cie., Ltd., manufacturing perfumers, Carter Lane, London, E.C.4, was involved in an outbreak of fire on May 31. The flames were extinguished before the damage became of an extensive nature.

### Birmingham

Sutton Coldfield has been troubled with mosquitoes, and many children have been bitten.

This hot spell has brought out extensive orders for insect powders and disinfectants.

The Birmingham Pharmaceutical Association issue an appeal for contributions to help to defray part of the cost of the new department of pharmacy at the Central Technical College established by the city education authorities at a cost of £2,500. Contributions should be sent to the secretary of the Association, Mr. D. J. Rushton, 1,088 Stratford Road, and cheques made payable to the Birmingham Pharmaceutical Association.

### Liverpool

The Wallasey Pharmacists' Association have arranged a motor run to Heswall on June 20. A bowling competition will form part of the programme. Tickets (including tea) are 6s. 6d. each, and may be obtained from the secretary, Mr. H. C. Tristram, 71 Mill Lane, Wallasey, or any member of the committee.

Mr. H. C. Tristram is endeavouring to form a local branch of the Photographic Dealers' Association for Wallasey, and he will be glad if anybody interested will communicate with him as soon as possible at 71 Mill Lane, Wallasey. Anyone joining before the end of June will not be required to pay the entrance fee.

### Sheffield

A window at the premises of Mr. F. G. Roebuck, chemist and druggist, Abbeydale Road, Millhouses, was recently smashed by a motor-car.

A meeting of panel chemists will be held on June 11, at 8.45 p.m., at the Church House, to consider the present position in regard to Insurance dispensing.

In connection with the "Sheffield Telegraph" holiday scheme for poor children, Messrs. J. T. Appleton and H. G. Williams have each taken a party of children to Cleethorpes.

Mr. H. Antcliffe, member of the Pharmaceutical Society's Council, has been elected a representative councillor for South Yorkshire on the National Poor Law Officers' Association.

### Miscellaneous

**INQUEST.**—An inquest was opened at Barnet, on June 1, on the body of an unidentified man who died after entering a doctor's surgery and stating that he had taken 200 aspirin tablets. The inquest was adjourned.

**POISON-LICENCE APPLICATIONS.**—Dorothy Builder, Stourbridge, trading as F. A. Godfrey, nurseryman, has applied to the Worcestershire County Council for a licence under Section 2 of the Poisons and Pharmacy Act, 1908. —An application for a similar licence has been made to the Essex County Council by Mr. A. B. Chatters, ironmonger, West Mersea.

**DANGEROUS DRUGS ACTS CHARGES.**—At Liverpool Police Court, on June 1, William A. Young was, again remanded on a charge of unlawfully procuring morphine (*C. & D.*, June 2, p. 680). A charge against Mr. H. C. Thompson, chemist and druggist, West Derby Road, for supplying Young, was also adjourned.—At Westminster Police Court, London, on June 2, a charge against Robert L. Dillon of being in unauthorised possession of morphine (*C. & D.*, June 2, p. 680) was dismissed.

**IN THE COURTS.**—At Marylebone Police Court, London, on May 31, John Kay (17), messenger, pleaded "Guilty" to two charges of stealing Nujol, Virol, face powder, coffee extract and other goods, belonging to his employers Allen & Hanburys, Ltd. The manager of the Vere Street branch, Mr. W. H. McCallam, chemist and druggist, gave the accused a good character, and he was placed on probation.—In Windsor County Court, recently, Mrs. S. Denton, drug-store proprietor, Brixton and Staines, and Harold Reeves, shopkeeper, High Street, Staines were each fined £5, with costs, for selling scheduled poisons.

## Irish News

### Pharmaceutical Society of Ireland

The latest dates for candidates applying for entrance to the July examinations are as follows:—Preliminary examination, Thursday, June 21; Registered Druggist examination, Tuesday, June 26; Pharmaceutical Chemist Licence examination, Wednesday, June 27; Ph.C. Assistant examination, Monday, July 2.

### Brevities

The annual excursion of the Chemists' and Druggists' Society of Ireland to Portrush will take place on Wednesday, June 13.

Mr. Joseph Gorry, M.P.S.I., Naas, was the runner-up in a closely contested match for the amateur championship at Prestwick.

While cycling in Cork at night recently Mr. W. G. Whittaker, Ph.C., Bridge Street, collided with a motor-car and was thrown. He was removed to the South Infirmary, where he was detained.

Lurgan war memorial was unveiled by the Duke of Abercorn on May 30. A wreath in the form of a cross made with Flanders poppies and surrounded by orchids and roses was placed on the memorial by Mr. A. W. Mann, M.P.S.I., Commandant of Lurgan V.A.D.

The value of chemicals, drugs, etc., imported into the Free State during April amounted to £78,258, according to an official return, against £85,088 for April 1927; for the four months to April 30 the total was £334,786, against £323,489 in the corresponding four months of last year.

### Belfast

At the monthly meeting of the Belfast Corporation on June 1 the recommendation of the Police Committee, after the plebiscite of the trade, that the Early Closing Hour Order, 1918, for pharmaceutical chemists', chemists' and druggists' and registered druggists' shops be revoked was adopted unanimously, together with the recommendation that a new Order be made fixing the closing hour at 8 p.m. instead of 9 p.m., and Saturdays at 10 p.m.

It was proposed at the recent annual meeting of the Belfast and District section of the Institute of Chemistry that at the beginning of next session the section might hold an exhibition of chemical work carried out in Ulster. The matter was referred to the committee. Officers and committee were elected as follows:—Chairman, Dr. W. H. Gibson; Treasurer, Dr. W. Honneman; Secretary, Mr. J. C. A. Brierly; Committee, Messrs. A. P. Hoskins, R. Blake, F. Dickinson and J. W. E. Haller.

## Scottish News

### Brevities

Mr. A. Macgregor, chemist and druggist, has commenced business at St. Leonard's Bridge, Craigie, Perth.

Evening attendance on Wednesday is being discontinued by many chemists in Kirkcaldy during the summer months.

At a recently-held meeting of Huntly Parish Council, Mr. John Raffan was appointed as chemist and druggist to this body for the ensuing year.

Duns Town Council has granted licences for the sale of agricultural and horticultural poisons to Hogg & Wood, nurserymen; Mr. T. Stephenson, ironmonger; and Mr. W. Wightman, ironmonger.

At Dalkeith Police Court, recently, Daniel Grainger (19), a soldier, was sent to prison for thirty days for breaking a plate-glass window, valued at £10, at a pharmacy at 33 High Street.

Mr. A. M. Mitchell, chemist and druggist, The Valleyfield Pharmacy, Newmills, Fife, has purchased the property and pharmacy at 96 Victoria Road, Aberdeen, until now owned and carried on by Mr. A. P. Wallace, chemist and druggist. Mr. Wallace will still carry on business at 14 Bridge Street, Aberdeen.

At Glasgow Sheriff Court, recently, Margaret McA. Robertson and Phoebe B. S. Robertson, unqualified assistants in the shop of Dr. W. M. Robertson, Great Western Road, were fined respectively 10s. and 20s. for having sold scheduled poisons containing more than 3 per cent. of homologues of carbolic acid.—At the same court, Robert Lilley, an unqualified assistant in the shop of Lyle & Lilley, The Old Drug Store, London Road, was fined £2 for a similar offence.

## Summer Outings

### Napoleon Club at Bognor

THE "Napoleon" Club, the social club of the staff of H. R. Napp, Ltd., Clement's Inn, London, W.C.2, held its annual outing on Saturday, June 2. A journey to Bognor was made by charabanc, and the afternoon was spent in organised sports and games. The motor journey both outwards and home was much enjoyed by those present. The weather was in brilliant mood, and the day's outing left nothing to be desired.

### Meggeson's Annual Outing

THE annual summer outing of the employees of Meggeson & Co., Ltd., New Church Street, London, S.E.16, was held on June 2, and the venue chosen was Hastings. Motor-coaches left the works shortly after 8 a.m., and passed through Sydenham, Keston, Penshurst, Tunbridge Wells, Ticehurst and Robertsbridge. Luncheon and tea were taken at the Queen's Hotel and the following toasts were given:—"The Firm," proposed by Mr. W. G. Kay (secretary), responded to by Mr. H. Vincent Dodd (managing director); "Our Guests," proposed by Mr. Arad Feather (director) and acknowledged by Mr. H. A. Green (works manager). A very enjoyable day was talked over as the party returned to the city.

### Women Pharmacists' Ramble

ON June 3 members and friends of the National Association of Women Pharmacists started from Epsom Station under the leadership of Miss Kirkwood for a country ramble. Among those present were the president (Miss Dennis Hayes), Miss Cross, Miss King, Miss Hobling, Miss Snelsus and Miss Griffiths. The route chosen was first through fields to the old Roman Road. Steadily climbing, the path emerged on to Micklemham Downs, where a halt was called for lunch. After a rest, the way continued down a steep chalk incline. The path led across open common land and through pleasant fields and woods to Walton-on-the-Hill, where the party were met for tea by Mr. and Mrs. Freke and the secretary (Miss Hodgkinson). After a well-earned rest, the last three miles were walked in record time across the fields to Epsom Race Course.

## Golfing Events

At a meeting of the London Chemists' Golfing Society at the West Essex Golf Club, on May 31, the Erasmic prize was won by Mr. T. T. Johnson, and the Thomson Cup by Mr. A. Leith. The leading scores were:—

ERASMIC PRIZE (MEDAL)					
T. Johnson	...	80 - 8 = 72	J. Quibell	...	95 - 18 = 77
D. Parry	...	86 - 10 = 76	C. Harrod	...	90 - 10 = 80
E. Geddes	...	89 - 12 = 77	D. Rae	...	98 - 18 = 80
A. Leith	...	92 - 15 = 77	W. Cane	...	98 - 18 = 80

THOMSON CUP (BOGEY)					
A. Leith	...	2 down	C. Presant	...	3 down
J. Quibell	...	3 down	E. Geddes	...	3 down

In a recent golfing contest between Northumberland and Durham chemists play resulted as follows:—

Northumberland		Durham			
J. Simpson	...	0	J. Halkier	...	1
W. Robson	...	0	T. Armstrong	...	1
H. Hopper	...	0	R. Anderson	...	1
G. Iredale	...	0	E. Little	...	1
E. Thompson	...	0	S. Blackburn	...	1
V. Marshall	...	1	J. Nixon	...	0
F. Carr, jun.	...	0	A. J. Hey	...	1
A. Walker	...	1	R. Armstrong	...	0
J. Duncan	...	0	F. Armstrong	...	1
W. Gilchrist	...	1	J. Smith	...	0
J. Montgomery	...	0	J. Carr	...	1
R. Whitehead	...	½	A. Robertson	...	½
Total	...	½	Total	...	8½

The Scottish chemists held their annual event over the Gleneagles Golf Course on May 16. A company of about 100 competed for the various prizes, the winners of which were as follows: *Commercial Travellers' Trophy*, T. McKinstry, Paisley; *1st Class* (1), A. Watt, Glasgow, (2) W. MacDavid, Glasgow; *Pears Cup*, D. Mackenzie, Glasgow; *2nd Class* (1) D. Mathewson, Edinburgh, (2) A. Scott, Glasgow; *Scratch Prize* (1), J. Stevenson, Prestwick, (2) D. Lunan, Edinburgh; *Bogey Prize*, C. Milburn, Glasgow; *John Greig Prize*, (1) A. Fraser, Bo'ness; (2) J. Erasmunson, Glasgow; *Ucal Prize*, A. Saunders, Glasgow; *Veterans' Prize*, (1) T. Bayne, Edinburgh, (2) H. Dugan, Aberdeen; *Territorial (Gibbs) Cup*, (1) Southwestern Division: D. Mackenzie, J. Stevenson, W. MacDavid, T. McKinstry; (2) Central Division: A. Fraser, A. Stoaks, D. Foster, A. G. Adamson.

The annual golf match between Aberdeen and Dundee chemists for the Cartwright trophy took place on May 30 and was won by the latter. Details of the play are as follows:—

Aberdeen		Dundee			
H. Bremner	...	0	D. Troup	...	1
M. C. Ross	...	1	J. Robertson	...	0
J. Forsyth	...	1	A. Y. Barrie	...	0
A. W. Marr	...	1	E. Alardye	...	0
C. A. Michie	...	1	F. W. Bennett	...	0
J. Michie	...	0	J. Whyte	...	1
H. M. Dugan	...	0	J. Stevenson	...	1
W. S. Taylor	...	0	P. Kelly	...	1
W. Marshall	...	0	C. Cross	...	1
A. Booth	...	0	C. Duncan	...	1
P. Murray	...	0	J. P. Ferrier	...	1
S. Anderson	...	1	J. Robertson	...	0
J. McConnach	...	1	H. B. Robertson	...	0
W. G. Mitchell	...	0	C. Stephen	...	1
W. J. Hendry	...	0	A. Robertson	...	1
A. G. Beattie	...	0	M. McConnachie	...	1
W. F. Hay	...	0	G. Fraser	...	1
G. Mackay	...	0	A. Miller	...	0
W. J. Cheyne	...	0	J. Anderson	...	1
G. A. Kinnaird	...	1	G. Smith	...	0
Total	...	7	Total	...	12

After tea Mr. C. Stephen, Dundee, welcomed the Aberdeen party, and Mr. J. Forsyth, captain of the Aberdeen Club, replied. Mr. John Logan (W. B. Cartwright, Ltd.) presented the cup to Mr. Stephen on behalf of the Dundee Club. Mr. J. Ferrier, Dundee, said how glad they were to see the ladies. Mr. J. Farquhar, Aberdeen, replied on behalf of the ladies, and proposed a vote of thanks to Messrs. G. Duncan, Dundee, and J. McConnach, Aberdeen, for the arrangements.

## Colonial and Foreign News

**NEW ZEALAND INSECTICIDES BILL.**—An Act cited as the Fungicides and Insecticides Act, 1927, is to come into operation on April 1, 1928. The Act regulates the manufacture and sale of certain chemical specifics for plant diseases and pests and of certain weed-killers.

**NARCOTIC DRUGS IN STRAITS SETTLEMENTS.**—At a recent meeting of the Straits Settlements Legislative Council a Bill was read for the first time designed to grant authorisation to medical practitioners and certain other persons to possess and use drugs, without licence so far as it is necessary for the practice of their profession or employment, in the same degree as is lawful in England.

**AMMONIUM PHOSPHATE FOR INDIA.**—The following notification (No. 26-Customs, dated May 5, 1928) has been issued by the Government of India in the Finance Department (Central Revenues) : In exercise of the powers conferred by section 23 of the Sea Customs Act, 1878 (VIII of 1878), the Governor-General in Council is pleased to exempt from the import duty leviable thereon under the Indian Tariff Act, 1894 (VIII of 1894), the following chemical manure, namely, ammonium phosphates.

**ZANZIBAR CLOVES.**—The exports from Zanzibar during 1927 amounted in value to Rs.1,09,28,912, compared with Rs.85,73,384 in the preceding year, and is a reasonably satisfactory recovery, although not up to the high level of 1923 and 1925. The receipts from the clove duty account for Rs.9,80,074 increase in the Zanzibar revenue. The clove revenue is subject to fluctuation, and the larger revenue during 1927 counterbalances the somewhat small yield during 1926.

**TROUBLE IN SANTONIN IN JAPAN.**—Santonin, amounting to yen 15,000, was bought by the Toyama City of a firm at Osaka half a year ago. But owing to the existence of suspicious contents which was proved by tests (says the Japanese "Weekly Druggist"), delivery has not yet been taken of by the city officials. To settle this trouble, experts concerned came up to Tokyo on April 16 in order to arrange re-examination at the Tokyo Imperial Hygienic Laboratory of the Home Department.

**NEW ZEALAND KAURI GUM.**—A new area of kauri gum has been discovered in the North Auckland district, and opened up for digging by the Lands Department. The land has been let to diggers in three-acre blocks. It has been estimated by an authority that the yield will be worth £2,000 per acre. The land is not sufficiently supplied with water for the purpose of washing the gum, and access has to be had over native land, which is always difficult in cases of this kind, the Maories imposing tolls and restrictions. The Government will receive a royalty of 10 per cent. on all gum won on the land.

**PEPPERMINT OIL IN NOVA SCOTIA.**—Mr. R. C. Ellis, Provincial Land Surveyor of Pictou, Nova Scotia (says the London "Chamber of Commerce Journal,") contemplates the introduction in that district of a new industry in the cultivation of the peppermint plant for the production of peppermint oil. Roots imported from the United States grew to maturity and had a high average content of oil of good quality. In order to test further the suitability of the climate and soil, a number of roots have been distributed to farmers, and it is stated that 30 lb. of oil can be produced from each cultivated acre.

**GERMAN IMPORT CERTIFICATES.**—A new method of fixing the values of goods imported into Germany will come into operation for statistical purposes on October 1. Under an Act recently passed by the Reichstag, the value of all imported commodities, as they cross the Customs frontier, have to be declared by the party through or by whom the foreign vendor is paid for them. A statistical certificate giving descriptions of the goods, the manner of packing, the quantity, value, country of origin, and country of destination, will have to be filled in at the frontier for the information of the Bureau of Statistics. The German authorities hope thus to give greater accuracy to their statistics. A similar system has been applied for a number of years to exports from Germany.

## French News

From the "C. & D." Paris Correspondent.

**THE MAYOR OF LYONS** has been officially informed that a sum of over 41,000,000 francs will be granted from the Rockefeller Fund towards the purchase of a site and the erection of a new building for the Lyons Mixed Faculty of Medicine and Pharmacy, on the condition that 15,000,000 be furnished by the French authorities or French donors. The state having promised 12,000,000, there is the likelihood that the scheme will be carried out.

SHAKESPEARE's allusion to the toad "ugly and venomous" is usually dismissed nowadays as archaic. But the "Annales de Médecine et de Pharmacie Coloniales" gives details of an incident in Cochinchina. Three native children cooked and ate a toad; the boy of five died and the mother brought the two girls, aged eleven and eight years respectively, to the French hospital, where the former died on arrival and the other was saved only by modern anti-toxin treatment.

**AN INMATE** of the Amiens asylum at Dury died recently from the effects of a dose of methyl salicylate, prescribed for external use for another patient. An inquiry was instituted, and six of the staff put on trial. Neglect of the use of distinctive labels for poisons was revealed, but the Court exonerated the pharmacist-in-chief from blame. The subordinates responsible, including a female dispenser, were fined 25 fr. The widow, who claimed 12,000 fr. damages, was awarded only 100 fr.

For 1928, M. Goris has been elected vice-president of the Paris Society of Pharmacy and M. Fleury, secretary. The Landrin Prize of the Society has been awarded to M. Cheymol for his study of *Geum Urbanum*, the Dubail Prize to M. Genevois (Xanthic bases in urine), and the Vigier Prize to M. Gadreau for a study of the ferrocyanhydrates of alkaloids. The silver medal for theses in natural sciences goes to M. Chauvel for his paper on "Vegetable Tannins," and the gold medal for physico-chemical science to M. Valette, whose thesis was "Some alcoxydized and halogenated benzylamines and phenylbenzylamines."

THE prosecution of herbalists for the illegal practice of pharmacy is one of the regular duties of French Pharmaceutical Associations. From three recent cases it appears that the courts uphold the principle that herbalists must sell their remedies as simples. To mix these simples and sell them as remedies, or to label the mixtures as remedies for specified maladies, constitutes the illegal practice of pharmacy. With regard to sterilised cottonwool, the courts seem disinclined to convict unless it has been medicated, in which case its sale is reserved exclusively to pharmacists. "Cinchona wine" also has been declared a pharmaceutical preparation.

THE Marais Quarter of Paris is the centre of the French wholesale drug trade, and is full of historic mansions of the old nobility now used for commercial purposes. One of the most famous and stately of these, built by Henry II for one of his daughters, has recently been purchased by the Municipality of Paris. It is now known as the Hotel Lamoignon, having been acquired in Madame de Sévigné's day by a magistrate of that name, who was her neighbour and friend. Another guest frequently within its walls was Guy Patin, the well-known medical man of that day. Later Alphonse Daudet had rooms there and wrote two of his novels within its walls.

THE site chosen for the "Maison de Chimie" is the Place d'Iéna, between the Avenue d'Iéna and the Avenue du Président Wilson. The foundation stone was laid by M. Herriot, Minister of Public Instruction, in the presence of a numerous company of officials and savants. M. Jean Gérard, secretary of the Berthelot Centenary Committee, read the list of nations which had subscribed towards the building of the new institute. France headed the list with 8,721,415 francs, Venezuela had contributed 1,000,000 francs, Colombia 770,000, Czechoslovakia 712,200, the U.S.A. 583,400, Belgium 406,800. Among other countries which contributed were the U.S.S.R. 130,000 francs, Japan 60,000, Canada 25,500, and Paraguay 10,000.

## Pharmaceutical Society of Trinidad and Tobago

THE question of dispensing their own prescriptions by Government Medical Officers in country districts in Trinidad and Tobago is engaging the attention of the Government and Medical Board (writes a correspondent), and the Pharmaceutical Society of Trinidad and Tobago is endeavouring to convince the Government of the justice of the claims of the retail chemist and druggist. Monthly meetings of the Society are held regularly, and special efforts are to be made to induce students and assistants to take more interest in the Society. To this end a committee has been formed to organise a definite plan of campaign to offer further inducements to students and assistants. At another meeting the vice-president said the question of dispensing by district medical officers was to have been taken up by the member for Tobago when the Governor had returned, but up to now (March 16) nothing further had been heard. It was decided that the secretary write the member for Tobago calling his attention to the long delay in the matter. At another meeting held on May 10 a presentation was made to the vice-president of the Society (Mr. F. E. Grant), and in so doing the honorary secretary (Mr. Henry Joseph) said they were all aware that the Society was reorganised almost six years ago, and it was well known how determined were the efforts of about six or eight of them to keep alive the only organisation that could help the druggists, both professionally and in business, and all during those strenuous years, whatever success and recognition had been achieved, was due in a great measure to their worthy vice-president, Mr. F. E. Grant. It was he who for five years kept their frail barque together—at that time they needed a strong and determined captain, and they had found that in Mr. Grant. The change from their old place of meeting and all that had been accomplished within recent times marked a new epoch in the Society's activities; and so when Mr. Carl McCarthy suggested a presentation to Mr. Grant to mark the Society's appreciation of his services, he heartily agreed, and the suggestion met with ready response.

The president (Mr. Percy Phillips) said it was both an honour and a privilege to make the presentation. Mr. Grant was a great captain and it was his determination and strength that had kept them together during the past five years. He had always admired Mr. Grant's strength of character which had done much to help them on the road to success and recognition as a body. He knew Mr. Grant would appreciate the gift and the spirit that prompted the giving. He had much pleasure in asking him to accept the gift. Mr. A. N. Thomas and Mr. Carl McCarthy also spoke at length and paid a glowing tribute to Mr. Grant's services.

Mr. Grant, in returning thanks, said he had an uphill fight years ago, but thanks to the persistent efforts of the "little band" they had to-day gained a modicum of recognition and respect, and he was sure it would continue in the years to come. Public service was always a thankless one, but it was their duty as good citizens to do the best they could for those among whom they lived, or the calling to which they belonged. He exhorted members to uphold the best traditions of pharmacy.

## Retail Pharmacists' Union

**Warwickshire.**—The Warwickshire Branch met at Leamington, recently, Mr. Hutton presiding. The secretary reported the action he had taken in supporting the opposition to the Shop Hours Bill, and read a letter he had sent to the parliamentary representative of the area, and his reply. The action of the secretary was approved. The Branch welcomed the formation of a new Marketing Committee of the R.P.U., and the secretary was instructed to communicate with the Committee pointing out the desirability of arranging for a minimum profit of 33 per cent. on toilet articles. It was further resolved that the Committee should be asked to make efforts for reducing "best terms" quantities on initial and repeat orders.

## Associations' Meetings

**Belfast.**—A general meeting of the North Irish Pharmacists' Association was held in Belfast, on May 31, for the purpose of selecting candidates for the forthcoming election to the Council of the Pharmaceutical Society of Northern Ireland. Mr. Culbert outlined a policy. Prolonged discussion followed, in which Messrs. R. I. Edwards, R. Guiler, H. Todd, C. B. Abernethy, J. Adams, T. Mitchell, H. Crossin and others took part, and it was unanimously decided to nominate for re-election the four retiring members of Council, Messrs. S. S. Badger, J. C. Culbert, H. Lancashire and H. Todd. The meeting also gave the Executive Committee full power to act in the matter of the amalgamation of the three Northern trade associations. The invitation of the Chemists' and Druggists' Society of Ireland to join them in their annual excursion to Portrush on June 13 was cordially accepted.

**Croydon.**—At a meeting of the Croydon Pharmacists' Association and Branch of the Pharmaceutical Society, held on May 18, Dr. H. E. Archer, of the Pathological Department, St. Bartholomew's Hospital, gave an address on *Chemical Pathology in Relation to Medicine and Pharmacy*. The chairman (Mr. F. S. Rose) introduced Dr. Archer. The lecturer explained that chemical pathology was becoming, in medicine, a subject of more importance than bacteriology. The application of the science to the examination of blood, urine, faeces, etc., was explained. The importance of blood-sugar estimation in determining whether or not a patient was really diabetic was emphasised. Dealing with urea estimation, Dr. Archer explained that pharmacists need not query a dose of 15 gm. of this substance, which was occasionally given to test the condition of the kidneys. In the estimation of fat in faeces, the analysis was often hindered by the presence of liquid paraffin in the stools. An important branch of chemical pathology was the analysis of tissues for poison. Here the chemical pathologist who had also had a pharmaceutical training was at considerable advantage. The question had been asked as to whether there was scope in this country for pharmacists specialising in chemical pathological work. In London there was little room for such work, but in certain provincial centres opportunities undoubtedly existed. Chemical pathology, to be efficiently conducted, needed constant practice and an unceasing flow of work, and it was only where these conditions were fulfilled that such important practice should be undertaken. A discussion followed, and questions were answered by Dr. Archer. On the motion of Mr. Chapman, a hearty vote of thanks was accorded.

**Perth.**—The annual meeting of the Perthshire Pharmacists' Association was held in Perth on May 30, when a representative gathering was present. Mr. N. M. Lindsay (president) occupied the chair. The treasurer submitted his report, which was found very satisfactory. Mr. N. M. Lindsay was re-elected President, and Mr. Thomas Harley was re-elected Secretary and Treasurer. Mr. J. Rutherford Hill, in an address, reviewed the situation of pharmacy generally, and referred to numerous anomalies still obtaining. Mr. Hill was cordially thanked for his address.

**Sheffield.**—A meeting called in order to form a junior association was held recently. Mr. McConnachie, who occupied the chair, declined the office of president. The following officers were eventually elected:—President, Mr. F. Hindle; Vice-Presidents, Messrs. J. E. Crowe and Kerman; Treasurer, Mr. Browne; Joint Secretaries, Messrs. Cooke and Beat. The officers and several lady students form the Committee. The results of the examinations on the sessional lectures, conducted by Mr. E. Preston, are:—(1) Mr. Kilby (gold medallist); (2) Miss B. Ritchings; (3) Mr. D. R. Ritchings.

**PARAGUAYAN PETITGRAIN OIL.**—The exports from Paraguay during 1926 amounted in value to £59,516.

**A WEIGHTY PATIENT?**—Asked by an inquisitive patient "Why do you prescribe so much yeast, doctor?" a well-known Scottish physician gave the terse answer: "A little leaven leaveneth the whole lump."

## Legal Reports

**The Coleford Case.**—At Coleford Police Court, on May 31 and June 1, 2 and 4, Beatrice Annie Pace was charged with the murder of her husband by the administration of arsenic (*C. & D.*, May 26, p. 645). The evidence was substantially identical with that previously given before the local coroner. Mr. F. R. Blanch, chemist and druggist, Market Place, who commenced business in September last, succeeding Mr. O. M. Ellis, chemist and druggist, produced the register of poisons sold by himself and Mr. Ellis. There was some discussion as to whether this register could be admitted as evidence, in view of the fact that no one could speak of any occasion when signatures were made before September 1, 1927. The Bench, however, decided to admit the book as evidence, and a formal objection was lodged by Dr. Earengey, solicitor for the defence. Mr. R. H. Ellis, F.I.C., county analyst, gave evidence of finding arsenic. Cross-examined, he said he found no antimony in the body. The only bottle containing arsenic was one marked "No. 7," which had contained potassium permanganate. Dr. Earengey: Did you find that the organs contained any potassium permanganate? —That is impossible to answer, because the organic matter of the intestines destroys the identity. Mr. Ellis said he could examine for potassium, but he would not be able to say with certainty whether what he found was potassium permanganate. Mr. Paling (prosecuting): If the defence wants it I can get Mr. Ellis to search for the manganese compound, which, I understand, is all that he would find of the permanganate of potash if he could get sufficient data to report on the subject. Dr. Earengey: I think he might do it. Mr. Ellis: I will. Mr. Ellis was asked by Dr. Earengey if it were possible for the solution of arsenic to have been put into the potassium permanganate which remained in the bottle because it had not been rinsed out? "If it is only a question of rinsing it out," he answered, "the arsenic put in would destroy the potassium." Dr. Earengey: Would it be possible from what you found for there to have been a certain amount of potassium permanganate that had not been rinsed out?—Possibly that might be it (indicating certain marks on the bottle). The defendant was committed for trial.

**Dispenser Sentenced.**—At Marylebone Police Court, London, on June 1, Ralph Valentine Edwards (38), described as a dispenser, appeared on an amended charge of attempting to obtain the sum of £4, a week's salary, from Mr. H. E. Bevis, 172 Albany Street, N.W., by false pretences (*C. & D.*, June 2, p. 682). The accused pleaded "Not guilty." Mr. G. A. Tocher, recalled, now stated that the copy had been obtained by means of ink and tracing paper. Mr. Reginald Holland May, managing director of Woddespoon & Co., Ltd., printers, Gate Street, W.C.2, said that he had printed certificates for the Pharmaceutical Society for fifty years. To the best of his belief, the "certificate" produced was a traced copy. It was on tracing paper and was not genuine. Mr. Herbert Froude, an official of the Pharmaceutical Society for thirty-four years, said that he daily handled the examination certificates, and, in his opinion, the "certificate" produced was not a genuinely issued certificate. Mr. Bevis identified the "certificate" as the one that the accused brought to him. He first got in touch with the accused, he said, through an advertisement in THE CHEMIST AND DRUGGIST. He answered the advertisement, and the accused replied asking for the position of superintendent chemist, and stating that he was qualified. He gave a name as a reference. Witness employed the accused on the strength of the representation that he was qualified. He asked the accused for his certificate, and the one produced was hung in the shop. Witness, after Mr. Tocher's visit, paid the accused 15s. to get rid of him. The accused said that hardly any of the evidence for the prosecution was true. The Magistrate: Are you a qualified chemist? —The Accused: No, sir. I have had twenty years' experience. The Magistrate: Did you take the job at £4 a week, or try to get it on the pretext that you were a qualified chemist?—The Accused: Most certainly not. I made it quite clear all the time. Mr. Quarrell: Did you take that certificate to Mr. Bevis?—The Accused:

No. I most certainly did not, and I can call a witness to prove it. I should like to know who hung it up in the shop to start with. I can guess who it is, but he is not here. The certificate was not in the shop more than five minutes altogether. Detective-Sergeant Juby said that the accused had been bound over for two years at the London Sessions for possessing cocaine and morphine. On that occasion the accused obtained a situation by means of a forged certificate. There was no doubt, added the officer, that the accused was a drug addict. The magistrate said that it was a very serious matter for an unqualified man to obtain control of a chemist's shop by means of a forged certificate. He passed a sentence of six months' hard labour, and allowed a charge of attempting to commit suicide to be withdrawn.

## New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

**PHARMEX, LTD.** (P.C.)—Capital £100. Objects: To carry on the business of chemists and druggists, etc. The first directors are R. Hird, W. E. Shepherd, and H. Treby. R.O.: 37 Belsize Lane, Hampstead, N.W.3.

**STANDARD BOTTLE CO., LTD.** (P.C.)—Capital £100. Objects: To carry on the business of manufacturers of glass bottles and jars and containers of any kind, etc. The subscribers are G. M. de L. Dayrell and A. R. Thorneloe. R.O.: 78 Coleman Street, E.C.2.

**F. W. WHITWELL, LTD.** (P.C.)—Capital £2,000. Objects: To acquire the business of a chemist, druggist and optician now carried on by F. W. Whitwell at Lincoln Road, Peterborough, and at Oundle, Northants, as "F. W. Whitwell." The directors are F. W. Whitwell, H. E. Whitwell, D. A. Whitwell, and B. Wright.

**A. BOAKE ROBERTS & CO., LTD.**, intimate a final dividend of  $1\frac{1}{2}$  per cent., free of tax, on ordinary shares, making  $6\frac{1}{2}$  per cent. for the year; £5,000 is placed to reserve (making £80,000); and £18,865 is carried forward.

**Boots PURE DRUG CO., LTD.**—The report for the year to March 31, 1928, confirms the increase in profits indicated by the directors' preliminary statement. Trading profits, including transfer fees, amounted to £913,973, against £789,570 for 1926-27, while the net profit is £701,973, against £641,733. With another allocation of £150,000 the reserve fund is raised to £700,000. Ordinary dividends, maintained at 24 per cent., are augmented by a bonus of  $3\frac{3}{4}$  per cent., leaving a carry forward of £208,307, compared with £188,973 brought in.

**IMPERIAL CHEMICAL INDUSTRIES, LTD.**—The first annual general meeting was held on May 31 at the Hotel Cecil, Sir Alfred Mond (chairman) presiding. In the course of his speech Sir Alfred gave a comprehensive review of the position and scope of the operations of the combine. He said that the results of the first year's working exceeded the anticipations held out in the circular sent to the shareholders of the merging companies by over half a million pounds. The balance-sheet profits were £4 $\frac{1}{2}$  millions, but in accordance with the old-established practice of the merger companies, not only were works maintained in a complete state of efficient repair, but amounts were charged to special maintenance or large repairs. Further, the company had provided funds for obsolescence and depreciation accounts amounting to a very considerable sum. The gross profits amounted to £5 $\frac{1}{2}$  millions, of which £4 $\frac{1}{2}$  millions figured in the balance-sheet, and £3,900,000 was being distributed (8 per cent. for the year to ordinary and  $1\frac{1}{2}$  per cent. to the deferred). Among other matters, the chairman dealt with new acquisitions, the relations of the company with its workers (40,000), who held over 653,000 ordinary shares. Relations with foreign interests, the development of industries, research work, and the issue of new capital were also referred to. Sir Harry McGowan (president) followed with a survey of the conditions in the various centres of activity at home and abroad. The resolution and accounts and the resolution sanctioning the increase of capital were passed.

## Business Changes

A PHARMACY has been opened at Birmingham Road, Halesowen, by Mr. R. A. Smith, West Bromwich.

MR. ALLAN WILSON, chemist and druggist, is opening a business at 14 Wallace Street, Galston, Ayrshire.

MR. W. N. WHITE, chemist and druggist, is opening a pharmacy at Market Square, Woodhouse, Sheffield.

MR. P. J. WILLIAMS, wholesale druggist, is moving his offices from Finsbury Square to 11 Hills Place, Oxford Circus, London, W.1.

MR. F. P. MILLER, chemist and druggist, has purchased the branch business of Mr. A. Sant, chemist and druggist, at 94 Trentham Road, Longton, Staffs.

MR. J. M. WOODCOCK has taken over the business of S. W. Vincent & Co., chemists, 302 Lower Addiscombe Road, Croydon, carried on by Mrs. E. G. Vincent.

MR. W. JOSTY, chemist and druggist, has taken over the business of Mr. R. H. Brown, chemist and druggist, Heath Pharmacy, Clover Hill Road, Savile Park, Halifax.

A. & F. PEARS, LTD., will vacate their offices in New Oxford Street, London, W.C.1, on June 9, and from that date all communications should be addressed to Messrs. Pears at Isleworth.

MR. ERNEST J. GEORGE, chemists' valuer and transfer agent, 3 St. Paul's Close, Walsall, has now opened City offices at 7 Southampton Row, London, W.C.1. (Telephone: Richmond 2210.)

MR. EDWARD MULLETT, drug and essential oil merchant, intimates that he is conducting his business with that of A. J. Rippin, Ltd., 17 Harp Lane, Great Tower Street, London, E.C.3, under their name and address.

ANTOINE CHIRIS, LTD., Paris, essential oil distillers, have acquired larger premises at 6, 7 and 8 Beauchamp Street, Holborn, London, E.C.1, and will conduct all their English business from that address on and after June 18.

MR. A. M. MITCHELL, chemist and druggist, has purchased the business at 96 Victoria Road, Aberdeen, carried on by Mr. A. P. Wallace, chemist and druggist, who will still carry on business at 14 Bridge Street, Aberdeen.

## Wills

MR. ARTHUR HUSBAND, who for many years carried on business as chemist and druggist at Leven, Fifeshire, has left personal estate valued at £6,418.

MR. HENRY JOHN JACKSON, of Bawtry, Yorks., formerly of Bridlington Quay, Yorks., chemist and druggist, left estate of the gross value of £10,581 8s. 9d. with net personalty £8,025 17s. 5d.

MR. JOHN TEMPLETON, of Iona, Wheatfield Gardens, Belfast, late secretary of High Moore and Alexanders, Ltd., Dublin, left personal estate in Great Britain and Northern Ireland valued at £5,166 18s. 11d.

MR. HENRY CLARKE STEWARD, of 88 High Street, Eltham, Kent, chemist and druggist, who died on February 9, left estate of the gross value of £2,622 16s. 2d., with net personalty £287 4s. 5d.

## Gazette

### Partnership Dissolved

STRAW, H., and RICE, W. E. C. F., 30 Wilde Street, Liverpool, manufacturing chemists, under the style of Pembroke Chemical Co.

### Bankruptcy Acts

#### RECEIVING ORDER

SMITH, WILFRED, 5 Byron Road, Ealing Common, Middlesex, and 37 Great Tower Street, London, E.C., chemical merchant and agent.

## Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 30, 1927	April 30, 1928	May 31, 1928
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord.	20 6	21 0	21 0
Amalg. Dental Co., 8½% Prefd. Ord.	18 9	20 3	20 9
Deferred 5s. ..	4 9	6 3	7 3
Apollinaris and Johannis, Ord. £1 ..	10 0	13 0	13 3
Ayrton, Saunders & Co., 7½% Pref.	16 0	16 6	16 6
Beechams' Pills, Deferred 1s. shares ..	—	4 4½	5 0
Benger's Food, Ord. ..	35 3	39 0	38 0
Boake(A.), Roberts & Co., 5% Pref. £10 ..	£5½	£7	£7
Boots Pure Drug, Ord. ..	127 6	133 9	132 6
Boots Pure Drug, 7% "A" Prefd. Ord.	23 9	23 9	23 9
Boots Cash Chemists (Southern), 6%			
"A" Pref. ..	21 9	21 9	21 9
Borax Consol'd. Defd. Ord. ..	26 9	26 6	27 3
Bovril, 6% Pref. ..	21 9	21 9	21 9
" Ord. ..	25 0	24 6	24 6
Defd. ..	44 6	41 3	41 6
British Celanese, Ord. ..	90 0	120 0	115 0
7½% Pref. ..	33 9	36 6	42 0
British Cyanides, Ord., 2s. shares ..	3 10½	6 10½	5 6
British Drug Houses, The, Ord. ..	16 9	19 6	20 6
British Glues and Chemicals, Ord. ..	4 3	5 0	6 3
" 8% Pref. ..	13 6	16 9	18 6
British Oil and Cake Mills, Ord. ..	30 0	31 0	31 6
British Oxygen, Ord. ..	29 6	32 6	32 3
British Photo, Indus., 6% Cum. Pref.	14 0	15 0	15 9
Bush (W. J.) & Co., 5% Pref. £5 ..	62 6	60 0	65 0
Cadbury Bros., 6% Pref. ..	23 0	23 0	22 6
Callard, Stewart & Watt, Ord. ..	45 0	43 9	42 6
" 5½% Pref. ..	19 6	20 0	20 0
Crosfield (Joseph) & Sons, 6½% Pref. ..	20 0	20 9	21 0
Dubarry Perfumery, Ord. 1s. ..	10 0	9 3	10 0
" 7½% Pref. ..	21 3	21 0	20 9
Eastman Kodak Com. (no nom. value)	\$168	\$175	\$184
Evans Sons Lescher & Webb, Ord.			
6s. 8d. shares ..	5 3	4 6	4 0
Field (J. C. & J.), Ord. ..	5 7½	5 0	4 6
" 6% cum. part. Pref. ..	12 0	13 9	13 6
" 7% Pref. ..	19 9	20 0	19 6
Gossage (William), 6½% Pref. ..	19 0	21 3	21 0
Grout & Co., Ord. ..	52 6	42 6	40 0
Heppells, 7% cum. partic. Pref. ..	15 0	12 6	12 6
Hodders, Ord. 1s. ..	1 0½	1 1½	1 6
Idris & Co., "A" Ord. ..	20 0	20 0	20 0
Ilford, Ltd., Ord. ..	35 0	41 3	42 6
" 6% Pref. ..	19 6	20 0	20 0
Imperial Chemical, 7% Pref. ..	25 0	25 4½	25 9
" Ord. ..	32 0	38 0	38 3
" Defd. 5s. ..	9 9	14 9	13 9
Intern. Sponge Importers, 6% Pref. ..	10 0	10 0	11 0
Kent (G. B.) & Sons, 5½% Pref. ..	11 3	11 3	11 3
Knight (John), 25% Prefd. Ord. ..	63 9	67 6	70 0
Laporte (B.) & Co., Ltd., Ord. ..	17 6	18 9	17 6
Lever Bros., Ltd., 7% Pref. ..	20 10½	22 9	23 4½
" 8% Pref. ..	20 10½	23 3	23 3
" 20% Prefd. Ord. 5s. ..	11 3	12 9	12 9
Liebig's Ext. of Meat, Ord. £5 ..	£16½	£17½	£18
Mellin's Food, 6% Pref. ..	13 0	12 6	13 0
Mond Nickel Co., Ord. ..	162 6	180 0	185 0
" 7% Cum. Pref. ..	26 0	25 1½	25 3
Nathan (Joseph) & Co., 7½% Pref. ..	15 3	17 3	17 0
" 8% Prefd. Ord. ..	8 0	8 0	8 0
National Drug and Chem. Co. of Canada, 6½% Pref. ..	6 0	3 0	5 6
New Transvaal Chemical Co., 6% Pref. ..	18 6	19 0	18 9
" 8% Pref. ..	22 6	23 0	23 0
Salt Union, Ord. ..	39 0	48 0	45 0
" Pref. ..	33 9	32 6	33 9
" Sanitas," The, Co., 9% Pref. ..	22 6	24 3	24 0
Sanitas Trust, 10% partic. Pref. ..	23 0	24 9	24 6
Schweppes, Ltd., Ord. ..	25 0	30 0	29 0
" Defd. ..	53 3	53 0	51 0
Smith (Stephens) & Co., Ord. 5s. ..	11 0	12 7½	11 0
Southall Bros. & Barclay, Ord. ..	81 6	86 0	95 0
" 5% Pref. ..	18 6	19 0	19 0
Spratt's Patent, Ord. ..	50 0	58 9	56 3
Stevenson & Howell, 6½% Cum. Pref. ..	20 0	20 0	20 0
Taylor's (Cash Chemists) Trust, 7½% Cum. Pref. Ord. ..	19 0	18 9	20 0
" ls. Defd. ..	7 9	6 9	6 3
United Glass Bottle Man., 6% Mt. Deb. Stk. £100 ..	£95½	£93	£94
Venesta, Ltd., Crd. ..	11 6	12 0	11 3
" 7% Prof. ..	16 3	15 0	16 0
Veno Drug Co., 8% Prof. ..	19 6	18 6	19 0
Virol, Ltd., Ord. ..	105 0	107 6	107 6
" 7% Prof. ..	22 9	22 3	22 6
White (A. J.), Ltd., Ord. 10s. ..	10 6	11 3	12 6
Wright, Layman & Umney, 6% Prof. ..	18 9	20 0	20 0

## Proposed Memorial to Sir William Glyn-Jones

WE reprint the following appeal, which is also referred to on p. 727 of this issue:-

SIR.—The late Sir William Glyn-Jones devoted his life to the service of pharmacy. The different organisations in the drug trade which benefited directly by his work feel that there should be some general memorial to perpetuate his memory worthily. There have been several appeals to the trade in recent months, but, as the presidents and chairmen of those organisations, we have no hesitation in appealing to all sections of the drug trade for subscriptions to a Glyn-Jones memorial fund. We appeal to members of the Pharmaceutical Society, whom he served as a member of Council, in the House of Commons, and as secretary and registrar; to those manufacturers, wholesalers and retailers who have benefited by the operation of the Proprietary Articles Trade Association; to the members of the Drug and Fine Chemical Manufacturers' Association; to those ex-Service men for whom he secured the Government grant for training, and to those persons, firms and associations overseas who knew him and valued his work. What the memorial will be must depend to a great extent upon the response to our appeal. We have considered many suggestions, and four that seem to us appropriate we give below. We welcome others:-

(1) A memorial scholarship, possibly post-graduate, to enable a pharmaceutical chemist to spend one or two years in research work in a foreign university; or to provide for the pharmaceutical education of a student unable to qualify without financial assistance.

(2) Provision for the maintenance and education of one or more orphans of pharmacists.

(3) A Glyn-Jones memorial lecture to be given at the British Pharmaceutical Conference or alternating with the Harrison memorial lecture, with a memorial medal for the lecturer.

(4) Glyn-Jones medals to be presented annually to each of the schools of pharmacy recognised for the Pharmaceutical Chemist Qualifying examination (there are ten) for award to the best student of the course.

We may add that we understand that the Council of the Pharmaceutical Society proposes to erect a memorial in the Society's House from the Society as a body. In conclusion, we ask each individual to accept responsibility for the success of this appeal, and to take his part in seeing that the memorial is worthy of the man and his work. Subscriptions should be sent to the secretary of the Pharmaceutical Society at 17 Bloomsbury Square, W.C.1. They will be acknowledged in "The Pharmaceutical Journal."—Yours faithfully,

HERBERT SKINNER,  
President of the Pharmaceutical Society of Great Britain.

HARVEY P. ARTHUR,  
Chairman of the North British Executive.

ALFRED HIGGS,  
President of the Proprietary Articles Trade Association.

J. E. FRENCH,  
Chairman of the Chemists' Defence Association.

D. LLOYD HOWARD,  
Chairman of the Drug and Fine Chemical Manufacturers' Association.

## Old Spanish Pharmacy Vases



PARMACY VASES FROM SPANISH COLLECTIONS.—Top row: left, an "orza" in white and cobalt blue (Sr. M. A. Balta); centre, a white vase with blue and yellow designs, from the pharmacy in the Benedictine monastery at Najera, the burial place of the kings of Navarre, Castile and Leon (Sr. J. Cusi); right, a white and blue vase with inscription in black lettering, from an old pharmacy in Almudevar, Aragon (Sr. N. Miret). Lower row: left, vase from the same pharmacy (Sr. N. Miret); centre, three albarello (Sr. J. Cusi); right, albarello in white and blue (Sr. J. Valles y Ribo).

## Opening an Optical Department

(Concluded from C. & D., April 21, p. 504)

SOME form of making and keeping records of refraction tests will, of course, be decided upon. It is an excellent plan to use the card index system, and to note down when any repairs or replacements are made, with the cost. The chemist will need some special printing. The note-heading should set out the name and qualification, and it is useful to print the hours of attendance, also a reference to the effect that glasses are supplied under the National Health Insurance Scheme. This branch of work should be cultivated, as the remuneration bears no relationship to the somewhat meagre return from N.H.I. dispensing. Business cards will be needed, and these should be made use of when interviewing friendly local medical men or ophthalmic surgeons, and in cases where persons may be referred for treatment to the latter. It is a good plan to make the appointment for the client, and to write the oculist's name on the card, thereby bringing oneself into closer touch with him. Separate prescription envelopes for optical prescriptions must be used. Printed envelopes are required also in which to place repairs and finished spectacles. It is a good plan to use counterfoil books for repairs (giving one part to the customer) as they serve to identify quickly a particular pair of glasses. Before giving a list of stock to be carried, it will be well to mention the few tools which will be necessary, as follows :—

2 pairs of pliers (the wholesaler will advise as to shape).

1 pair of cutting pliers (for screws).

Screwdrivers.

2 fine files with "safe edge."

Small hand-vice (useful but not really necessary).

A small jeweller's hammer.

The actual spectacle ware needed will depend somewhat on the class of neighbourhood, although good qualities of frame can be supplied almost anywhere, as the public is becoming more discriminating in its taste. Below is given a list of what is regarded as suitable for a start :—

Real tortoiseshell spectacle frames, "hockey" ends, 1 pair.

Real tortoiseshell spectacle frames, straight sides, 1 pair.

Real tortoiseshell and gold-filled, curl sides, 38 mm., round eye, 1 pair.

Real tortoiseshell and gold-filled, curl sides, 40 mm., round eye, 1 pair.

Rolled-gold spectacles with eye rims covered in imitation shell, curl sides, assorted fittings,  $\frac{1}{2}$  dozen.

Spectacles with shell or imitation rims, with gold-filled bridge and sides,  $\frac{1}{2}$  dozen.

Some discrimination and care will be needed in this connection. The amount of stock need not be large—£40 to £50 will be an ample outlay at first, and this will cover all items. It is necessary to keep certain "material," as the wholesaler terms it, and the following list is suggested :—

These items will be needed for replacements :—

Springs for finger-piece mounts, 1 dozen pairs each, right and left.

Gold-filled curl sides,  $5\frac{1}{2}$  in., 6 in.,  $6\frac{1}{4}$  in.,  $6\frac{1}{2}$  in. (English pattern), 3 pairs each.

Gold-filled curl sides, 6 in.,  $6\frac{1}{4}$  in.,  $6\frac{1}{2}$  in. (American pattern), 3 pairs each.

Gold-filled curl sides,  $5\frac{1}{2}$  in., 6 in.,  $6\frac{1}{4}$  in.,  $6\frac{1}{2}$  in., "comfort" (English pattern), 2 pairs.

Gold-filled curl sides,  $5\frac{1}{2}$  in.,  $6\frac{1}{4}$  in.,  $6\frac{1}{2}$  in., "comfort" (American pattern), 2 pairs each.

Assorted screws (with taps), 1 box.

Placquet corks, 2 dozen.

Finger-piece placquets,  $\frac{1}{2}$  dozen.

Gold-filled children's frames, "Orbito" type,  $\frac{1}{2}$  dozen.

Rimless spectacles, gold-filled (fitted with meniscus lenses for display),  $\frac{1}{2}$  dozen.

Rimless eyeglasses (a fitting case containing assorted fittings is most useful with etched lenses), finger-piece mounts,  $\frac{1}{2}$  dozen each.

Rimmed gold-filled curl side spectacles,  $\frac{1}{2}$  dozen.

Rimmed gold-filled straight side spectacles,  $\frac{1}{2}$  dozen.

Astigmatic eyeglasses, gold-filled,  $\frac{1}{2}$  dozen.

Lorgnettes, gold-filled,  $\frac{1}{2}$  dozen.

Lorgnettes, platinoid,  $\frac{1}{2}$  dozen.

A pair of each of the following bevel edge lenses in interchangeable "0" and "1" eye sizes:

+0.25; +0.5; +0.75; +1.0; +1.25; +1.5; +1.75;  
+2; +2.5; +3; +3.5; +4; +5; +6.

About eight different sizes of cases will be needed, and probably half-a-dozen of each would be supplied, making four dozen in all. Under the heading of sundries may be classed smaller items such as :—

Rimless eyeglass chains (ear),  $\frac{1}{2}$  dozen.

Lens cleaner (to prevent steaming), retailing at 1s.,  $\frac{1}{2}$  dozen.

Folding pocket magnifiers,  $\frac{1}{4}$  dozen.

Hand reading glasses,  $\frac{1}{4}$  dozen.

Eyeglass cord (silk).

Monocles, plain,  $\frac{1}{2}$  dozen.

Monocles with gallery,  $\frac{1}{6}$  dozen.

Tinted spectacles, retailing at 2s. 6d.,  $\frac{1}{2}$  dozen.

Tinted spectacles, with Crookes glass,  $\frac{1}{4}$  dozen.

As the chemist will need some stock for window-display purposes, he should also purchase additional frames, etc., and in the case of rimless spectacles and eyeglasses, a few should be obtained fitted with large round deep-curve lenses. This also applies to the real and imitation tortoiseshell frames. It will be necessary also to have at least one pair of fused bifocal spectacles for demonstration purposes. The stock so far itemised may be taken as a minimum for commencing. As the department grows, the individual taste of the optician will lead him to specialise in some particular style, and he will of course be guided to a large extent by the vogue of the moment. Also he will be visited by representatives of the various wholesalers, who will endeavour to interest him in special designs. My advice is: "See them all, it will repay you." Have something "special" to show a "fussy" client. He or she is usually willing to pay for it, and likes to feel that he or she is getting something a little out of the ordinary.

### WINDOW DISPLAY

The chemist-optician will, of course, set apart one of his windows—if he be fortunate enough to possess more than one—for optical display. If it be decided to have a specially fitted window, the advice again may be sought of the various shop-fitting firms. The makers of the various forms of spectacle ware will always supply attractive show material. As regards display, generally speaking crowding should be avoided. The certificate should be exhibited, and small descriptive cards of the various frames and types of lenses. Prices should not be used except on frames, as it is difficult to know beforehand what any pair of spectacles may cost until the nature of the lenses is decided upon. It is wise, however, to price a few items in the window, such as imitation shell frames, cases, eyeglass chains, hand readers, lorgnettes (unglazed). The display should be changed at least once in fourteen days, and some particular item be specially described each time a change is made. The "open" method of display is to be preferred—light oak stands or art bronze ones, with small glass shelves of varying sizes, while something in the way of small velvet or silk mats form effective aids in setting out the display. A good-sized model eye and white plaster model heads on which a pair of spectacles can be placed are attractive in the window.

### ADVERTISING

Under this heading may be gathered any form of making the optical department known to the public. Optical printers will supply forceful leaflets or folders, and these should be made use of when sending out the usual account from the pharmacy. This is undoubtedly one of the best ways of bringing the optical department to the notice of one's customers. The columns of the local newspaper may with advantage be made use of, provided the "copy" be changed fairly often. It is a good plan to give a lens cleaner free with every repair, and of course one must be placed in each case used for new glasses. These cleaners can be obtained printed with the optician's name quite cheaply. It will be found, too, that many wholesale houses who specialise in any particular form of "mount" will supply leaflets setting out their particular merits; these are very useful. Then, again, the makers of Crookes glass supply advertising matter, as also do the makers of the Kryptok bifocal lens.

## The Calcium Biphosphate Judgment

THE following is the full text of the judgment of the Tribunal in this case, concluded in last week's issue (p. 695) :—

### SAFEGUARDING OF INDUSTRIES ACT, 1921

MESSRS. A. BOAKE ROBERTS & CO., LTD.,

and

THEIR OPPONENTS.

We have heard and duly considered the evidence adduced before us as well as the arguments of counsel representing the parties and the Board of Trade respectively.

The complaints which the complainants make are set forth in paragraph 1 of their Statement of Complaints.

They complain of the omission from the list issued by the Board of Trade numbered H (ii) under the Safeguarding of Industries Act, 1921, Section 1, Sub-section 5 of calcium biphosphate.

In our opinion the complaints they make are well founded.

The desire of the complainants is set forth in paragraph 2 of their Statement of Complaints.

They say that they desire that there should be included in the said list calcium biphosphate of a quality which may be, and is hereinafter described as calcium biphosphate, "baking powder quality."

We consider that effect should be given to their desire and that the addition of the words "Baking powder quality" is a convenient method of describing calcium biphosphate as used for baking powder.

A similar method of description has already been used with advantage in relation to a photographic chemical.

We therefore decide that calcium biphosphate (baking powder quality) should be included and so described in the list mentioned in paragraph 1 of the Statement of Complaints before referred to.

(Signed) A. A. HUDSON,  
F. G. DONNAN,  
JOCELYN THORPE.

May 25, 1928.

It will be noted (writes a correspondent) that, as was the case in the verbal epitome of the judgment given before the Tribunal rose, no reasons whatever are given. It is, however, clear that this substance goes into the dutiable list as a "fine chemical," as no other claim was made for it. It should be emphasised that the considered opinion of the Board of Trade was that it was *not* a fine chemical, as evidenced by the statement they put in, which contains the claim for a fine chemical in terms. It is a matter of intelligent speculation as to what was the *ratio decidendi* (if there was one) in the judgment. A careful examination of the evidence would almost drive one to the conclusion that the Tribunal has decided this case on the following grounds :—(1) They entirely reject the accepted view that purity—that is, so far as it can be attained—is a necessary criterion of a "fine chemical." (2) They have placed great stress on the word *purity* as meaning freedom from poisonous ingredients—i.e., lead and arsenic. (3) They have probably decided that it is a single brand of the British-made substance that is a fine chemical, and upon this based their judgment. Reasons for these views are based on the following analyses, which are typical of various British and foreign samples, and which have been made this year. In these analyses, given below, the "acid calcium phosphate" is in fact given as higher than it actually is, as it comprises *all* the soluble phosphoric acid calculated to the acid calcium salt :—

	1	3	4
Calcium biphosphate ..	44.08	Calcium biphosphate ..	81.78
Calcium mono-acid phosphate ..	36.05	Calcium mono-acid phosphate ..	5.97
Calcium sulphate ..	2.38	Calcium sulphate ..	1.92
Magnesium biphosphate ..	0.44	Magnesium biphosphate ..	1.35
Sodium chloride ..	0.80	Sodium chloride ..	0.72
Calcium biphosphate ..	49.27	Calcium biphosphate ..	53.07
Calcium mono-acid phosphate ..	38.03	Calcium mono-acid phosphate ..	28.07
Calcium sulphate ..	1.24	Calcium sulphate ..	4.67
Magnesium biphosphate ..	1.20	Magnesium biphosphate ..	5.90
Sodium chloride ..	0.09	Sodium chloride ..	3.22

5	Calcium biphosphate ..	50.26	9	Calcium biphosphate ..	76.08
	Calcium mono-acid phosphate ..	33.07		Calcium mono-acid phosphate ..	14.01
	Calcium sulphate ..	2.24		Calcium sulphate ..	1.02
	Magnesium biphosphate ..	3.66		Magnesium biphosphate ..	3.05
	Sodium chloride ..	0.48		Sodium chloride ..	none

6	Calcium biphosphate ..	62.94	10	Calcium biphosphate ..	80.58
	Calcium mono-acid phosphate ..	22.03		Calcium mono-acid phosphate ..	6.06
	Calcium sulphate ..	2.55		Calcium sulphate ..	1.55
	Magnesium biphosphate ..	4.80		Magnesium biphosphate ..	1.66
	Sodium chloride ..	none		Sodium chloride ..	0.56

7	Calcium biphosphate ..	43.95	11	Calcium biphosphate ..	81.09
	Calcium mono-acid phosphate ..	35.04		Calcium mono-acid phosphate ..	9.07
	Calcium sulphate ..	1.78		Calcium sulphate ..	1.02
	Magnesium biphosphate ..	0.80		Magnesium biphosphate ..	1.55
	Sodium chloride ..	0.36		Sodium chloride ..	0.96

8	Calcium biphosphate ..	43.83			
	Calcium mono-acid phosphate ..	33.01			
	Calcium sulphate ..	8.21			
	Magnesium biphosphate ..	0.70			
	Sodium chloride ..	0.65			

Now the whole of these analyses are those of samples of good quality acid calcium phosphate, of the highest degree of purity as far as deleterious ingredients, such as lead and arsenic are concerned, and are of actual bulk being used for baking-powder quality. Is it possible that these can be described as "fine chemicals"? If such considerations formed the basis of the judgment (and, as no reasons are given, one is entitled to speculate thereon) it comes to this. In the cream of tartar case, the late Referee, regarding the matter from a legal point of view, indicated that, even if an article were made in this country by methods usually employed in the fine chemical industry, it was upon the imported article on which it was sought to impose a duty that he had to pass judgment. And if the imported article were clearly *not* a fine chemical it was to be excluded from the list. One must either come to the conclusion that the Tribunal has decided that mixtures having the composition indicated by the above quoted analyses are fine chemicals or that they have reversed that obviously correct dictum by the late Referee. It would be astonishing if the former were the case, and if the latter be the *ratio decidendi*, it is submitted, with great respect, that they are wrong in law.

## Recent Patents

**Abstracts of specifications of recently-granted patents for inventions.** The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

**Ammonium Chloride Crystals.**—A process for the manufacture of ammonium chloride crystals in which the interaction of synthetic ammonia and gaseous hydrochloric acid is effected at such velocity that part or all of the ammonium chloride produced is in the form of tough fibrous crystalline masses. (Castner-Kellner Alkali Co., Ltd., Runcorn, 290,045.)

**Detergent Soap.**—A soap comprising a mixture of an ordinary soap of any suitable nature with high-molecular alcohol (cyclo-hexanols obtained by the hydrogenation of phenol), and with hydro-aromatic sulphonic acids or salts (naphthalene sulphonic acid or tetra-hydro-naphthalene) to increase the wetting and cleansing properties. (P. Friesenhahn, Berlin, 285,174.)

**Mercapto-Sulphonic Acids.**—The sodium salt of 3-amino-4-auro-mercaptopbenzene-1-sulphonic acid (obtained from 2-nitro-aniline-4-sulphonic acid by diazotisation, decomposition of the diazo product with potassium thiocyanate, reduction of the 3-nitro-4-thiocyanobenzene-1-sulphonic acid and the introduction of gold) is dissolved in water and sodium formaldehyde bisulphite added, the solution heated, cooled, and the formaldehyde bisulphite compound, containing 36 per cent. of gold, precipitated with alcohol. (Chem. Fabrik auf Aktien, Berlin, 285,001.)

## Trade Notes

THE PERONIA CO., LTD., Derby Buildings, Long Row, Nottingham, advertise their concentrated lavender perfume in this issue.

HEGGIE & AITCHISON, shopfitters, Duff Street, Edinburgh, illustrate in their advertisement in this issue a fitting of interesting design.

DRY BOTTLE CAPS.—The London Capsule Co., 341 Purley Way, Croydon, supply, under the name Adapto-caps, dry self-sealing bottle caps in a variety of colours and sizes.

LYSOLATS.—Solidol Chemical, Ltd., 16 St. Helen's Place, London, E.C.3, elsewhere in this issue call attention to the lysol tablets which they have placed on the market under the above title.

CLOSED FOR OUTING.—Wright, Layman & Umney, Ltd., manufacturing chemists, Southwark, London, S.E.1, inform us that their premises will be closed on June 9, the date of the annual staff outing.

GLADYS COOPER'S BEAUTY PREPARATIONS, LTD., 10 Bruton Street, Bond Street, London, W.1, advertise some of their attractively put up toilet specialities in this issue. An illustrated price list will be sent post free on application.

SAFETY RAZOR BLADES.—L. Frankenberg, 125 Hounds-ditch, London, E.C.1, who advertises A.M.O. safety razor blades in this issue, calls attention to the fact that they are now made from Sheffield steel. A bonus scheme is in operation until September.

ARTIFICIAL SUNLIGHT THERAPY.—Mr. J. W. Mason, F.B.O.A., 50 Wigmore Street, London, W.1, is prepared to give lectures and demonstrations of the applications of the ultra-violet and infra-red rays, a branch of science in which he has specialised for some years.

PAPIER POUDRÉ, LTD., 46 Baker Street, London, W.1, have placed on the market two new creams, Poppoea Skin Food and Poppoea Vanishing Cream. The latter is delicately perfumed and both are attractively presented in distinctive pots. These new creams will be extensively advertised in ladies' journals.

CHERAMY FACE POWDERS.—Parfumeries de Paris, Ltd., Acton, London, W., have introduced a series of Cheramy face powders, which, combining as they do remarkably low price with first-class quality, chemists who are not already acquainted with them should communicate with the company. Some excellent show material will be supplied.

KRAKS VEJVISER, 1928, is the title of a well-arranged export directory of Denmark published by Kraks Legat, Nytorv 17, Copenhagen K. The information in volume II, a copy of which has been sent us, is made available for readers in English and various other languages by means of detailed directions and indexes. The principal sections comprise (1) firms, (2) products, and (3) advertisements.

HEPATEX.—Evans Sons Lescher & Webb, Ltd., have prepared a pamphlet on the use of this highly concentrated liver extract, and copies will be sent to chemists who make application to the research laboratories at Crofton Lodge, Runcorn. We have previously called attention to the concentrated nature of this liquid extract—a 4-oz. bottle is equivalent to 64 oz. of fresh liver—which, the company state, has proved very effective in clinical trials.

PSYCHOLOGY AND THE CHEMIST'S SHOP.—The Haycock Press, Ltd., 80 Fleet Street, London, E.C.4, are holding from June 6-30 (10 a.m. to 5 p.m., except Saturdays) an exhibition of commercial paintings which is of unusual interest to manufacturers who are considering the publication of posters and showcards. In event of a prospective purchaser being partial to a particular work, Messrs. Haycock will make arrangements for the artist to be seen personally, so that details may be discussed or other ideas submitted. It will be realised that a design eminently suitable for one branch of commerce is totally unsuitable for another, and it should be borne in mind that the business of a chemist and druggist is of so comprehensive a nature as to render it one of the most difficult from a psychological point of view. Entrance is free on the presentation of a business card.

INTER-EMPIRE TRADE DIRECTORY.—The Association of Dominion & British Trades, Ltd., Dominion House, Bartholomew Close, London, E.C.1, has issued for the first time "The British and Dominions Trades Directory" (pp. 754, 30s.), comprising a classified list of buyers and sellers in the Dominions, Protectorates and so forth, followed by a British section subdivided into an alphabetical list, a classified trades list, a selection of trade marks and brands, and a guide to sellers. The addresses of Trade Commissioners and others are also given. It is stated that the next edition will be about twice the size of the present one.

THE "INSTRUMENT WORLD."—The Hatton Press, Ltd., 72-78 Fleet Street, London, E.C.4, have sent us a copy of the first number of a new monthly (6d.) journal which they are publishing under the above title. The "Instrument World" is intended as a medium through which designers, manufacturers, vendors and users of scientific instruments may maintain mutually beneficial contact, and among the interesting articles in this issue are: "Scientific Instruments in Industrial Research," "The Modern Electric Furnace as a Scientific Instrument," "Inexpensive Spectrometric Apparatus for Industrial Purposes," "Artificial Sunlight," and "Optical Instruments for the Examination of Materials," while considerable space has been devoted to "Recent Instruments Reviewed." The new journal is printed on high quality paper, profusely illustrated, and promises to be a worthy companion to the well-known "Optician."

## Trade-mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1928, p. 329.

(From "The Trade-marks Journal," May 23, 1928.)

- "VOK"; for agricultural sprays (2). By California Spray-Chemical Co., 135 Walker Street, Watsonville, California, U.S.A. 486,422.
- "ANTOXYLIN"; for medicinal chemicals (3). By Oxo, Ltd., Thames House, Queen Street Place, London, E.C.4. 487,087. (Associated.)
- "CORODENIN"; for a medicated preparation for preventing injury by ultra-violet rays (3). By J. D. Riedel Aktiengesellschaft, 1-32 Riedelstrasse, Berlin-Britz, Germany. 488,340.
- "SAUVETTES"; for medicated pessaries (3). By Etta Motteram, 122 Nightingale Lane, Clapham, S.W.12. 488,451. (Associated.)
- "RADIWOLL"; for a curative woollen cloth containing radioactive material (3). By Radicura-Radiwoll, Ltd., 53 Victoria Street, London, S.W.1. 488,440.
- "EPHEDROL"; for medicinal chemicals (3). By Bayer Products, Ltd., 31-34 Basinghall Street, London, E.C.2. 488,491. (Associated.)
- "FIBRO-LUSIL"; for medicinal chemicals (3). By W. C. Tuke, 38 Walbrook, London, E.C.4. 489,177.
- "KYDNOS' PARKER'S FLUID REMEDY" with device representing "Spirit of Health" before pedestal holding container and surmounted by word "Health" ("Spirit of Health" and "Parker's" disclaimed); for a medicine (3). By Parker's Remedy, Ltd., 49 Renshaw Street, Liverpool. 488,585.
- "OMBO" on device of circle and square; for surgical ointment (3). By Emma Deller, 37 Harrow View Road, Ealing, London, W.5. 489,273.
- "MAY FAIR A" over device of phoenix in circle with monogram "S & M" ("A" disclaimed); for medicinal chemicals (3). By Savory & Moore (1928), Ltd., 8 Welbeck Street, London, W.1. 489,744.
- "PHENYLDENT"; for medicinal chemicals (3). By T. J. V. Parry, 349 Buxton Road, Stockport. 489,831.
- "LUGOMED"; for medicinal chemicals (3). By A. Mahlstedt, 44 Schauenburger Strasse, Hamburg, Germany. 489,734.
- "OPTIMAX"; for surgical instruments, etc. (11). By M. Gottlieb, Kaiseralle 209, Berlin, W.15. 489,652.
- "TONEX" and "BROMELLA"; for photographic papers (39). By Photo-Produits Gevaert Société Anonyme, 23 Septe Straat, Vieux-Dieux, Antwerp, Belgium. 488,556/559.
- "CREMAG"; for magnesia (48). By The Washington Chemical Co., Ltd., Station Road, Washington Station, Durham. 487,779. (Associated.)
- "BENOVAN"; for toilet soaps and skin creams (48). By Watkins & Co., 37 Preston Street, Brighton. 487,816.

## Births

Notices for insertion in this column must be properly authenticated.

ABRAMS.—At 6 Hardman Avenue, Sedgley Park, Prestwich, on May 24, Ruth, the wife of David Abrams, M.P.S., of a son.

LEIGH.—At 20 Waldegrave Road, Brighton, on May 29, May (née Pool), the wife of Rupert Leigh, chemist and druggist, 50 Colbourne Road, Hove, of a son (Anthony Bruce).

LEWIS.—At 31 Lowman Road, Holloway, London, N.7, on June 1, the wife of P. R. Lewis, 2 Penton Street, Islington, of a son.

RICHÉY.—At 368 Newtownards Road, Belfast, on May 31, the wife of Edmund A. Richéy, Ph.C., of a daughter.

SPARKS.—At 22 Faringdon Street, Swindon, on May 31, Vera, the wife of H. S. Sparks, M.P.S., of a daughter.

## Marriages

MAW—PUGH.—At Christ Church, Lancaster Gate, London, W.2, on June 5, Charles Percival Maw, Bentham, Merstham, a director of Peat Products (Sphagnol), Ltd., 21 Bush Lane, London, E.C.4, to Gwladys Emmeline Pugh, daughter of the late Mr. William Pugh, Hankow, China, and Kenley, Surrey.

## Deaths

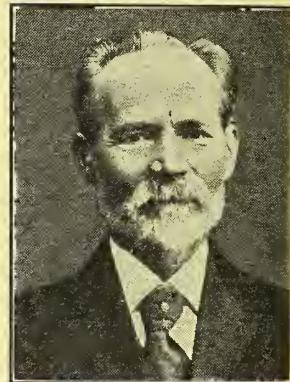
BOORNE.—At 49 Woodstock Road, Redland, Bristol, on May 23. Mr. Herbert Edward Boore, Ph.C., managing director of Evans, Gadd & Co., Ltd., manufacturing chemists, Fore Street, Exeter, and Redcliff Street, Bristol, aged fifty-nine. Mr. Boore was in personal charge of the Bristol branch of Messrs. Evans, Gadd & Co. for a long period. At the Bristol meeting of the British Pharmaceutical Conference in 1903 he was local secretary; the portrait reproduced here was taken about that time. The interment took place on May 26 at Canford Cemetery, after a service at Highbury Chapel. Among those present

were Mr. H. Wippell Gadd (brother-in-law), Mr. S. C. Gadd (brother-in-law), Mr. F. Souterden and other members of the staff of Messrs. Evans, Gadd & Co., and several masonic brethren from the Robert Thorne Lodge, No. 3663. The floral tributes included wreaths from the Exeter and Bristol staffs of the company.

BONNER.—At his residence, 129 Hamilton Place, Aberdeen, on May 24, Mr. Alexander C. Bonner, managing director of William Davidson, Ltd., wholesale chemists, Palmerston Road, aged fifty-nine. The business acquired by Mr. Bonner in 1896 was founded thirty years earlier in Castle Street by Messrs. William Davidson and James Sim. In 1887 Mr. Sim withdrew from the wholesale trade, Mr. Davidson remaining the proprietor until his death. Removal to Palmerston Road took place in 1901, and conversion into a limited company in 1908. The premises were destroyed by fire two years ago, but a new building was erected on the same site. Mr. Bonner was a prominent member of the Royal Aberdeen Golf Club. He is survived by a widow and a daughter.

EMMERTON.—At the Royal Isle of Wight County Hospital, Ryde, on June 1, Mr. Edward Emmerton, M.P.S., of Freshwater (late of 27 Balham High Road, London, S.W.12), aged sixty-two.

GILMOUR.—At Dunfermline, on May 28, Mr. David Gilmour, Ph.C., aged seventy-seven. Mr. Gilmour was born at Cairneyhill, and served his apprenticeship to his brother, Mr. Andrew Gilmour, Burntisland. After experience as an assistant with Lindsay & Gilmour, Edinburgh (in which firm another brother, Mr. William Gilmour, Ph.C., was a partner), he passed the Major examination in 1873. A few years later he commenced business in Dunfermline, where he subsequently took his son, Mr. John Gilmour, Ph.C., into partnership. From 1902 to 1906 Mr. Gilmour served on the Scottish board of examiners of the Pharmaceutical Society; he was also a member of the North British Branch Executive. In 1908 he was co-opted to fill a vacancy on the Council of the Society caused by the resignation of Mr. David Storrar: he remained a councillor till 1915, when he retired. Mr. Gilmour held office at various times as president of the Fifeshire Pharmaceutical Association, chairman of the local Pharmaceutical Committee, and chairman of the Dunfermline School Board.



MR. D. GILMOUR, PH.C.



MR. H. E. BOORNE, PH.C.

## Personalities

MR. M. A. COATES, chemist and druggist, who recently retired after being thirty-eight years in the employ of R. Parkinson & Sons, manufacturing chemists, Burnley, has been presented with a rose bowl by the staff.

MR. ALFRED R. WHEATLEY, chemist and druggist, managing director of Wheatleys Cash Chemists, Ltd., Northgate Street, Gloucester, has been elected vice-president of the local branch of the Pharmaceutical Society and that of the R.P.U.

THE King's birthday honours include the following:—Sir Alfred Mond, Bt., M.P., a former Minister of Health and a director of Imperial Chemical Industries, Ltd., receives a peerage; the new knights include Dr. J. H. Jeans, F.R.S., the astronomer and physicist; Sir Ernest Gowers, Chairman of the Board of Inland Revenue, and Sir Charles Thomas, Permanent Secretary of the Ministry of Agriculture and Fisheries, are awarded the K.C.B.; Mr. David Davis, chairman of the London Insurance Committee, and Mr. D. R. Wilson, secretary of the Industrial Fatigue Research Board, are made Commanders of the Order of the British Empire; Mrs. J. K. Irvine, superintendent of the South-Eastern Pricing Bureau and a past-president of the National Association of Women Pharmacists, receives the M.B.E. for meritorious services in connection with the National Health Insurance scheme; and Professor J. S. Haldane, F.R.S., of Birmingham University, becomes a Companion of Honour for work in connection with industrial disease.

## Information Department

### INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated	
R/16. Afasan capsules	M/66. Muelphy midget sprayer
F/16. Currot rouge	M/295. Spiro tooth brushes
S/56. Lime blossom perfume	E/305. Sydney Ross Co. of America (agents here)
L/16. Liveroid (liver extract)	
H/46. Cocaine in 1 cc. ampoules	

## Observations and Reflections

By Xrayser III.

### A Decimal System

of apothecaries' weights and measures, designed to supersede the metric system wherever it is used in the British Empire, is explained in a small pamphlet which has been addressed to me by an anonymous correspondent who seems to have been interested in some observations of mine published a few weeks ago (*C. & D.*, April 14, p. 477). As a basis for the suggested system, it is proposed to increase the avoirdupois pound to 10,000 grains and divide this into ten ounces of 1,000 grains each; the ounce in turn is to be divided into 10 drams of 100 grains, and the dram into ten scruples of 10 grains. The resulting table would make ten grains equal one scruple, ten scruples one dram, ten drams one ounce, ten ounces one pound, ten pounds one stone, ten stones one hundredweight, and ten hundredweights one ton. This table would be supplemented by a similar one for new apothecaries' decimal capacity measures, ranging from grain measures through scruples, drams, ounces, pints, gallons and barrels, to hogsheads. All simple enough except as regards the perennial difficulty of securing adoption for any system that contrasts markedly with established custom. It seems to me that it would be almost, if not quite, as difficult to secure recognition for a new system based upon our old apothecaries' measures in place of the metric system as it would be to get it substituted for the Imperial system of weights and measures. Some day, changes that we should now regard as revolutionary may result in universal adoption of a better system of weights and measures than any now in use. But that day will almost certainly be some hundreds of years hence.

### New Zealand Pharmacists

occupy an enviable position in the matter of dispensing prices as compared with ourselves, and one would like to know how much work of this kind the average pharmacist gets out there. In the list furnished to you by Mr. W. H. Saunders (*C. & D.*, June 2, p. 691), the minimum prices for mixtures are distinctly high, but I do not think they are extravagantly higher than they ought to be in this country. The charge of 3s. 6d. for an eight-ounce mixture, to be taken in half-ounce doses, may seem impossible here, except in cases in which there are specially expensive ingredients; but dispensing is never going to pay until our usual charges are considerably increased. There is much to be said in favour of the plan of adding, generally, 50 per cent. to the cost price of ingredients and container, plus a dispensing fee of 1s. 6d. If the dispensing fee were made one shilling, the total charge would be no greater than, in my considered opinion, it ought to be. There will, of course, be occasions when the dispensing fee will need to be higher if the work done is to be properly remunerated. Let me add that I think there ought never to be any competition in dispensing prices, if only for the reason that specially dispensed medicine is not a product which it is economically sound to provide on an ordinary commercial basis. As a rule, people do not take more medicine than they can help; and I see no great difficulty in our educating the British public into the belief that specially dispensed medicine, being a comparative rarity, if not exactly a luxury, is not a thing about the cost of which they ought to haggle.

### Quickly Enough

the General Medical Council has been recommended by its Pharmacopœia Committee to approve generally of the changes in practice enumerated in the conclusions of the report of the Subcommittee of the Committee of Civil Research, as I ventured so recently to suggest would prove to be the case. Your notification in last week's issue (p. 681) of this speedy acceptance of the new situation is of extreme interest, as recording an event that will in future be considered of supreme importance in the history of pharmacopœia production in this country.

### "By Authority,"

the legend which finds a place on the cover of the British Pharmacopœia, will continue under the proposed new arrangements to exercise its influence in the future as in the past. In every sphere of thought and action men have been prone to lean upon the supports of authority. And such an attitude has its virtues within limits. But the natural inertia of mankind is so great that progress has only been made, for the most part, by means of violent irruptions which, when viewed as history, have come to be the marks of epochs in the advancement of the human race. From time to time it is with a little profit that one turns back to consider the several sources of authority which have directed the currents of civilisation. Often it has occurred that the real pioneer has had to postulate some authority from which he has been willing to appear to derive his ideas in order that they might find acceptance at the hands of his contemporaries. The innovator is always looked at askance. A well-known instance is the case of Paracelsus, whom we reckon as the founder of iatro-chemistry. In this matter of chemical remedies we recognise that there were others whose teachings were as anti-Galenical as were his. As to what were the common origins of the new teachings it is not possible to do more than submit that we find them in the labours of the alchemists of preceding times.

### But These Predecessors

of Paracelsus, "Basil Valentine" and their contemporaries had to find some authority for their teachings and practices. An interesting illustration of this occurs in a little pamphlet belonging to the series of publications made by the Early English Text Society. It is a reproduction of a MS. in the Sloane collection, and was edited by the late Dr. F. J. Furnivall. It belongs to the later part of the Middle English period, and probably was written about 1470. The title page of it reads thus, in modern type, "The Book of Quinte Essence or The Fifth Being; that is to say, Man's Heaven.—A Tretice in englisch drawn out of the book of quintis essencij in latyn, that hermys the prophete and kyng of Egipt, after the flood of Noë father of philosophriph, hadde by revelacion of an aungil of God to him sent." The author of this tract was not content to rely upon even so great an authority as the famous Hermes Trismegistus; he must needs fortify it with divine inspiration. Had Paracelsus put aside his iconoclastic moods, and had he put in claims for divine revelations and for antique avenues whereby he acquired his knowledge, his fight with the Galenists would have taken another course. In the pharmacopœia which is to be in the more or less near future, the Olympian authority under which it has hitherto been issued will be diluted with a tincture of the laity of medical science and will gain in value. The assumption of authority has always clouded the vision of the presumptuous ones, and engendered rebellion in the hearts of those who were expected to submit. In this matter a better way is being found.

### These Old Writers

must have possessed a quaint sense of humour. This Quinte Essence had several names and qualities according with the means and substances employed in its production. Most of the preparations were mineral and therefore belonged to that school of medicine with which we associate the name of Paracelsus. But the principal Quinta Essencia, or "oure quinta essencia," as the author calls it, is "as heaven incorruptible" and "it hath three names by the philosophers, that is to say—burning water, the soule in the spirit of wine, and water of life. But if you will conceal it then shall ye call it 'oure quinta essencia.'" Among the many cures which may be effected by this powerful medicament is "how to make an old evangelic man young"; and it is explained "how poor evangelic man may get out the gracious influence of gold." After reading this treatise one is almost inclined to agree with the Scottish physician who sang:—

"Thus, man's but a big spirit-lamp, as we see;  
And lamps all require you to cram 'em  
With plenty of spirit of good density,  
In order to *alere flamman.*"

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## Editorial Articles

### Charges on the Drug Fund

THAT section of National Health Insurance work with which the chemist is concerned may be viewed from three different angles. The insured person, because of the contributions he has paid, is entitled to all the medicine he needs when he is ill. This is described in the Act as "proper and sufficient medicine." The doctor, when treating his patient, is required by his contract to order on a prescription form any medicine and certain appliances which may be requisite for the treatment. The chemist, by his contract, agrees to supply the articles ordered by the practitioner. All this is simple enough while there is nothing to hold up the machine; but the strict limitation of the drug fund is an obstacle to the smooth working of the scheme, and prompts a closer inspection of contracts and regulations. The chemist naturally forms the conclusion that if he can have only the money that is in the pool, and if that amount is strictly limited, he must supply only the items mentioned in the contract; those items are "proper and sufficient medicine" and the appliances specified in the Second Schedule of the Regulations. The question of appliances is fairly straightforward. So much has been written in the past about what can be supplied, that most chemists are aware of the fact that the tariff mentions practically all the kinds of appliances that will be paid for out of the drug fund. When we come to consider the other item in the contract, however—the proper and sufficient medicine to which the insured person is entitled—the position is by no means so plain. The phrase has never been clearly defined, although the Second Schedule of the National Health Insurance Bill introduced into Parliament by the Minister of Health in March contains the amplification "including such chemical reagents as may be prescribed." Obviously, foods and beverages are not medicine; but it is a very difficult thing to say at what point some of the present-day dietary preparations cease to be merely foods and enter the medicinal category. Every such preparation should be considered on its merits, and a definite decision should be arrived at as to whether this or that preparation should or should not be supplied by chemists when prescribed by a panel doctor for an insured person. As a practical solution of the difficulty, we suggest that a

central joint committee should scrutinise very carefully all the different preparations concerning which doubt may exist. It should be possible to commence by eliminating all those which are not medicinal in character, and then, by establishing certain broad principles, to narrow the circle until most of the doubtful articles have been either definitely excluded or allowed. We suggest that the following kinds of preparations should be examined, and that individual articles of a proprietary nature, which are indicated by a general description in the list, should be considered, each on its own merits, before arriving at a decision.

(1) *Ordinary Drugs*.—Test solutions. Sugar substitutes (e.g., saccharin, glucose). Anæsthetics. Disinfectants (e.g., carbolic acid for sputum flask).

(2) *Proprietary Preparations*.—Toilet articles (e.g., medicated soaps, skin creams, dental powders and pastes). Beverages (e.g., wines and spirits, spa waters). Foods—(a) merely nutrient, such as beef juice; (b) malt extract preparations; (c) those chiefly recommended for their vitamin value; (d) the casein and glycerophosphate group. Disinfectants, excluding medical lotions, etc. Secret remedies—those of which the formula is not disclosed nor the principal ingredients indicated.

There is still another group of preparations to which attention should be directed. It is provided in the doctor's contract that he shall himself supply to the patient (a) drugs and appliances required in an emergency, and (b) drugs which are usually supplied by a doctor personally. For this service he receives a payment based on the number of persons for whose treatment he is responsible. It is clear, therefore, that if a practitioner uses his own material for an emergency case and then issues a prescription to replenish his stock, the drug fund is bearing a charge which should not be imposed upon it, because the doctor, in anticipation of his being required to treat emergency cases, has already been paid for the cost of any material he is likely to use. Then, in regard to (b), it seems to follow from the Regulations that whenever the drugs there referred to are required the doctor must supply them himself (with certain exceptions mentioned in the distribution scheme). In no case, emergency or otherwise, is he expected to order them on a prescription form; if he does so, the drug fund is again being improperly charged with the cost. Probably the articles referred to are mainly hypodermic injections, such as camphor, morphine, or strychnine, or anaesthetics, such as ether or cocaine. These would be ordinarily administered by a practitioner in person, and therefore should be supplied by the insured person's panel doctor. The whole question merits very careful consideration by the Retail Pharmacists' Union central committee. By cutting down the number of articles to be paid for, more money will be available for the prescriptions legitimately supplied. It is probable that a strong policy in this direction would effect a considerable saving in the cost of prescriptions, and conserve the drug fund to an appreciable extent.

### The Sugar Outlook

COMMENTING on the unsettled state in sugar in our issue of February 18 last (pp. 213-14), it was pointed out that the world's markets this season were confronted with unprecedentedly heavy resources, amounting to close on 24,900,000 tons (in spite of the curtailment of the Cuban crop to four million tons), thus indicating a surplus against the two preceding seasons of roughly 1,300,000 tons and 300,000 tons respectively. Based on this and other factors, including the setback of six per cent. in the deliveries into American consumption for last year, from 5,671,335 tons to 5,297,050 tons, the opinion was expressed that "it is difficult to imagine that the depressed feeling which has characterised the trade will

be effectively overcome for some time yet, although there seems plenty of scope for an expansion of the trade demand at a low level of values." Since then the trend of prices has again been mostly downwards, amidst a few occasional transient recoveries, with a strictly hand-to-mouth trade demand under the lack of confidence and the huge quantities of Cuban sugar forced for sale for shipment to Europe on exceptionally low terms. This cheap sugar, however, proved to be a blessing in disguise to the British refineries in their remarkable struggle for existence against the Government subsidy and dumped sugar. Some idea of this dumping can be formed from our total imports of foreign refined sugar in more recent years, which normally represented roughly one-third of the whole of the supplies delivered into home consumption. With the last Budget enactment providing for a notable and adequate lowering of the duty on imported raw sugar, due relief was afforded to the British refining industry. This was certainly a step in the right direction, and its after-effects in a comparatively short space of time have been felt very tangibly. The full melting capacity of British refiners is placed at approximately 1,850,000 tons per annum, so that they should be well able to cope with the whole of the country's trade needs. The U.K. returns of imports of foreign sugar have already fallen off considerably under the operation of the new fiscal regime, and it looks almost as if such sugar will be a thing of the past, although certain quantities of refined produced in British colonies may be imported under preferential treatment. It is certain that our imports will very shortly almost entirely consist of Colonial and foreign raw sugar. It must therefore be realised that there has been a drastic change in the avenues of distribution of supplies for this country from abroad at the expense of refined sugar. This fact is now of vital importance for Cuba—the leading producer of cane sugar. In fact, considerable impetus has been given to our imports of raw sugar under the reduced duty, and Cuba has taken full advantage of this, while it is significant that practically the whole of the original reserve of 200,000 tons left in the hands of the Cuban Sugar Export Corporation some time ago has already been disposed of, including the 50,000 tons which were put on the market with the beginning of this month. Undoubtedly the action taken by the British Government will have a most important and permanent bearing on future developments in the international sugar situation, and incidentally greatly help Cuba in solving her working difficulties. The loss of the British market to the Continental exporting countries for refined sugar (particularly Czecho-Slovakia) has obviously aroused serious misgivings there, although there is probably room for a further expansion of the outlet in large Continental consuming centres under improving economic conditions. It would now appear as though the arrangements signed by some of the large European beet producers at their conferences with the Cuban representative near the close of last year for a regulation of production and supplies in line with trade needs have become impracticable. In fact, it is generally assumed that a breakdown is inevitable. The curtailment of the sowings in Czecho-Slovakia and also in Belgium reported some time ago for the coming season was already a reflex of the arrangements referred to, but the fact deserves notice that the latest returns of F. O. Licht's estimates of the European sowings reveal another increase of 34,000 hectares to 2,594,000 hectares, this comparing with 2,481,442 hectares a year ago—an increase, therefore, of 113,000 hectares. Most countries indicate increases, particularly Russia, Germany, France and Poland. Since Continental refined sugar has been virtually eliminated from competition on this side, old crop raw beet sugar has been placed to

some extent, and also for shipment from next crop, over the last quarter of the year on terms fully competitive with raw cane sugar from Cuba and elsewhere. Before the war large quantities of Continental raw beet sugar were imported by this country, and it remains to be seen how far this competition will reassert itself with the next European campaign. There thus threatens to be a war of some magnitude between European raw beet and Cuban cane sugar forthwith, the main objective of which is the capture of the British market. Therefore, special significance attaches to the outlook in sugar at this juncture.

### Sesquiterpene Chemistry

An interesting, but somewhat polemical, contribution to the chemistry of the sesquiterpenes by Mr. A. C. Chapman has appeared in the "Journal of the Chemical Society" (1928, 785). In spite of its interest, however, it does not carry us much further in our knowledge of these bodies. In 1895 Mr. Chapman described what he considered a new sesquiterpene, which he had isolated from the essential oil of hops. He described this under the name "humulene." In 1907-08 Deussen and his pupils ("Annalen," 356, 1, 359, 245) and later (1909, "Annalen," 369, 41) came to the conclusion that humulene was in fact the inactive variety of caryophyllene, which he termed "inactive  $\alpha$ -caryophyllene" ("Journal für praktische Chemie," 1911, 483); and in the following year they stated that Chapman's humulene probably contained 4 per cent. of  $\beta$ -caryophyllene. After detailing his experimental work the author concludes:—"Working on a very large quantity of crude caryophyllene, I have in fact been unable to obtain an inactive form of this hydrocarbon, and it is obvious that hydrocarbon to which Deussen refers as the  $\alpha$ - or inactive caryophyllene is neither more nor less than humulene." So Deussen says humulene is inactive  $\alpha$ -caryophyllene, but Chapman says inactive  $\alpha$ -caryophyllene is humulene. If the structural relationships of this sesquiterpene are such as to warrant the name "caryophyllene," Deussen is right; otherwise Chapman's "humulene" should stand.

### Samples by Post

ATTENTION is again being directed in commercial circles to inland postal rates for samples. Attempts have been made by Chambers of Commerce to induce the Post Office to restore the old samples post, and complaints continue to be received by the London Chamber from traders who protest against the imposition of the ordinary letter rates, which, it is contended, is a restriction on enterprise. It is pointed out that there is an international samples post which permits samples to be sent to far distant countries at a lower rate than they can be sent from one place to another in this country. When the matter was brought before the Postmaster-General some time ago, the official attitude was that the acceptance of samples in the inland post on a reduced rate of postage would involve a sacrifice of revenue. It was also stated by the Post Office that, apart from financial considerations, experience had shown that it was impossible to prevent the use of an inland sample post for articles of merchandise which were not samples at all, and for small parcels sent from one individual to another, except by imposing restrictive regulations which were both harassing to the public and troublesome to the Post Office. The view is now taken by traders that if it is possible to have samples post between different countries it should be possible to provide a similar inland postal service.

**THE WEARING OF THE SULPHUR.**—Judge Cluer, while sitting in the Shoreditch County Court on May 25, had before him a man who said that after pushing a motor-cycle he had been laid up for five weeks with lumbago. The judge remarked: "I will tell you what to do next time. It is simple. Put powdered sulphur in your socks and wear them all day. It will go all over you, blacken your silver watch if you have one, and blacken your money, but the lumbago will go, and the cost is 2½d. That's the thing—powdered sulphur."

## Westminster Wisdom

Notes on Parliamentary Matters.

### COCAINE AND COCAINE HYDROCHLORIDE

The President of the Board of Trade (Sir P. Cunliffe-Lister), in reply to a question put by Mr. Fenby on June 5, stated that the manufacture of cocaine and cocaine hydrochloride in substantial quantities has been carried on in this country for some time past under the authority of the Home Office. He was given to understand that these materials will shortly be available for disposal, and the conditions for exemption from duty are, therefore, not satisfied.

### MANUFACTURE OF SHEEP-DIP

Mr. W. Thorne asked the Home Secretary on June 5 if he was aware of the dangerous nature of the work of men engaged in the manufacture of sheep-dip in consequence of the amount of arsenic which is used in the process; and whether he was prepared to issue regulations obligatory on all firms manufacturing sheep-dip similar to the instructions issued by the Minister of Agriculture in this connection?

Sir W. Joynson-Hicks: I am advised that these processes are liable to give rise to diseases of the skin, but the number of such cases reported in the last few years has been quite small. The Factory Department have not been able to trace any recent cases of a serious character. The main precautions to be taken are the provision of adequate exhaust ventilation and suitable washing facilities, but these can be already secured in all cases where arsenic is used under the existing provisions of the Factory Act, and I am advised that no additional regulations are necessary.

### LACTIC ACID

Mr. Fenby asked the President of the Board of Trade on June 5 whether he was aware that the exemption orders applied for during the past two years under Section 10 (5) of the Finance Act, 1926, in respect of lactic acid of a quality known as pale technical, 50 per cent. by weight, and lactic acid, edible quality, being products liable to duty under Part I of the Safeguarding of Industries Act, 1921, have not yet been issued, and that the only lactic acid produced in His Majesty's Dominions is a crude dark cloudy quality, which cannot be satisfactorily used in several important industries.

Sir P. Cunliffe-Lister: Lactic acid which satisfies the requirements of most consumers in this country has been made here for some years past, and I understand that other kinds are now being produced in this country, and will be produced in substantial and increasing quantities. I am, accordingly, not satisfied that the conditions from exemption from duty are fulfilled except in the case of lactic acid complying with the requirements of the British Pharmacopoeia, which has already been exempted.

### STORAGE OF POISONOUS GASES

Lt.-Commander Kenworthy asked the Home Secretary on June 6 if he would state what regulations are in force for preventing the storage of poisonous gases near large centres of population and what steps are taken to prevent their accidental release.

Col. Sir Vivian Henderson, in his reply, stated that there are no special regulations in force in this country, and the considerable use which is made of phosgene and other poisonous gases in various industrial processes necessitates the storage of these gases in the factories concerned. The precise cause of the Hamburg disaster is not clear, but it is noteworthy that the container at Hamburg appears to have been of much greater capacity and therefore liable to far greater stress than in the containers generally in use in this country. The inquiries made on this point indicate that the containers in use here have a wide margin of safety and that the position generally is satisfactory. An inquiry, however, into the storage of such gases is at present being carried out by a Committee of the Scientific and Industrial Research Department, and it will be necessary to review the situation in the light of their findings.

## Pharmaceutical Society of Great Britain Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C.1, on June 6, Mr. Herbert Skinner presiding. There was a full attendance.

### DEATH

The CHAIRMAN first referred sympathetically to the death of Mr. David Gilmour, Dunfermline. Mr. Gilmour, he said, served for many years on the North British Executive, of which he was chairman from 1915 to 1918, and from which he retired in 1921. From 1902 to 1906 he was a member of the Scottish board of examiners, and from 1908 to 1915 he served on the Council of the Society. In addition to his pharmaceutical activities, he occupied a number of public offices in his own neighbourhood, and it was a testimony of his devotion to pharmacy that on becoming a member of the Council he resigned all his other public appointments. It would be the wish of the Council that a letter expressing deep regret, and recalling the services that he rendered, should be sent to his family.

Mr. PARRY, seconding, recalled that he worked with Mr. Gilmour on the Council for some years, and he would always remember the association with pleasure and respect.

Mr. GUTHRIE, as a colleague of Mr. Gilmour's in the North, desired to be associated with the resolution. Mr. Gilmour was a Scottish pharmacist for whom his colleagues had the highest regard. Not only was he himself an outstanding pharmacist, but he was also a member of a family of outstanding pharmacists. Within recent years he had been laid aside through illness, but his memory had been and would remain green.

The Council signified approval of the chairman's suggestion by standing in silence.

### MR. WELLS WELCOMED

The CHAIRMAN next extended a cordial welcome to the only new member of the Council, Mr. Wells, who, he said, was well known to most of the other members. Those who had known him and his work in London would be especially pleased to receive him because of the services he had rendered in South-West London, and elsewhere, for they would realise that he would now have an opportunity of working in a larger sphere and for a wider circle.

Mr. WELLS, returning thanks for the welcome, expressed appreciation of the honour conferred upon him by his election and also the cordial reception extended to him by the Council. It would be his greatest endeavour to uphold worthily the best traditions of the Council, and he was looking forward to his three years' work with pleasure. He realised that there would be difficulties, but he hoped that his services would be of mutual advantage to all interested in pharmacy. As he gazed round the room he could see the portraits of men who had given their services and almost their lives; and although it was not given to everyone to rise to such heights as they had attained, he felt that it would be something to emulate the example set by such men. He was very pleased indeed to have been elected during Mr. Skinner's term of office, for it had been his pleasure and privilege to work with Mr. Skinner on many occasions. He asked his colleagues to remember that he was the youngest member of the Council, and to bear with him if he lacked the confidence at the outset that only experience could give him. In thanking the members for their cordial reception, therefore, he also asked their indulgence until he became acquainted with his new duties.

### TRIBUTE TO MR. WHITE

The CHAIRMAN referred to the retirement from the Council of Mr. E. White, after twenty-one years' service. Mr. White, he said, had served in the cause of pharmacy almost from the time he left the Society's school, where he was a demonstrator. He was on the board of examiners, and had devoted himself to the Society in so many ways that his name had practically become a tradi-

tion. He himself looked back upon Mr. White as a man very much his senior, though as a matter of fact he was not, but Mr. White had arrived early and had carried on his task all through the years. It was only the unfortunate condition of Mr. White's health that had made him decide to retire; and if he retained a modicum of good health, the Council could rest assured that he would continue to do as much for pharmacy in the future as he had done in the past. They would all regret that Mr. White had had to relinquish his seat at the Council table. "He was president of the Council," the chairman continued, "when I first became a member, and I never thought it would be my lot to speak about him on his retirement. He served the Council all through the five strenuous years of the war, at a time when such men got all the work and very little credit." Since that time, the chairman proceeded, Mr. White had been chairman of the Education and Establishment Committees, while it was as impossible as it was unnecessary to record his other services to the Society in detail. But he wished to move that the Council place their appreciation of all Mr. White had done on record in their minutes and also send an expression of that appreciation to Mr. White himself. He was sure Mr. White would be glad to have in writing the appreciation of his services which they all felt so sincerely.

Mr. PARRY, seconding, said he did so with mingled pleasure and regret. He agreed with every word of the tribute paid to Mr. White by Mr. Skinner. "When I came on the Council fifteen years ago to-day," he said, "it was on the very day that Mr. White was first elected president. I doubt whether we could have had a more able chief and leader during the strenuous war days. His work is written on every page of pharmaceutical history for as long a period as I can remember, and his memory here, his genial personality and his many good qualities will remain as much respected as time goes on."

Mr. NEATHERCOAT said the reason he wished to speak at that juncture, immediately following the president and vice-president, was that he served as vice-president during the whole of Mr. White's presidency. He agreed with Mr. Skinner that it was impossible at the present time adequately to estimate the value of Mr. White's services to the pharmaceutical cause; his association with every ramification of the Society's work had been of such an intimate character, and he had played such an important part. "Mr. White," he went on, "has certainly been one of the most outstanding figures in pharmaceutical public life during the last twenty years. While we regret the reason for his decision to retire, it is still a gratification to us to know that although he is leaving the Council he is not leaving the cause of pharmacy."

Mr. PECK, having associated himself with the tribute to Mr. White, suggested that the Council should have the resolution of appreciation of Mr. White's services engrossed and sent to him under the corporate seal of the Council, in addition to placing a record on the minutes. Such a course might be without precedent, but, as Mr. Neathercoat had said, they could not over-estimate Mr. White's services to pharmacy.

Mr. SARGEANT supported the idea. He knew that Mr. White's interest in the Society and pharmacy was by no means lost, he said, and though he himself was unable to continue on the Council, his heart would still be in the work. All who knew Mr. White would feel a deep debt of gratitude to him for the example which he had set by his absolute loyalty to the Society.

Mr. ROWSELL said that no tribute could be too glowing to the work which Mr. White had done on behalf of pharmacy in this country. Not only here, however, was this appreciated, but also in America, and his name was almost a household word with pharmacists on the Continent. He was glad that the Council some time ago had taken the opportunity to present Mr. White with his portrait.

Mr. BILSON, supporting, recalled that he was treasurer of the Society during the whole of Mr. White's presidency, and he echoed all that had been said in his praise.

The resolution to send to Mr. White an engrossed copy of the entry to be made in the minutes was carried unanimously.

## MRS. IRVINE'S DISTINCTION

The CHAIRMAN, in announcing that the Membership of the Order of the British Empire had been conferred upon Mrs. Jean K. Irvine for her services in connection with the National Health Insurance scheme, said he believed it was the first time a woman pharmacist had been thus honoured.

## PRESIDENT RE-ELECTED

The Council next proceeded to the election of the president and other officers.

The voting for the chair resulted in Mr. Skinner being elected with eighteen votes, the only other nominees, Mr. Parry and Mr. Melhuish, receiving one vote each and there being one blank paper.

The secretary having invested Mr. SKINNER with the chain of office, the president made a brief speech of thanks. It had been a great pleasure to him, he said, to devote himself during the past year to the cause of pharmacy, and it was very gratifying to have the opportunity of going on for another year, for he did not feel when the end of the year came that his job was finished. He therefore appreciated all the more the honour the Council had done him in re-electing him. He had hoped that before this the report of the Departmental Committee would have been issued, but he was looking forward to the time when it would be ready, and he would be only too pleased to do what he could in the interests of pharmacy, whatever the report contained.

## VICE-PRESIDENT RE-ELECTED

Mr. Parry was re-elected vice-president, receiving sixteen votes; as against the four recorded for Mr. Melhuish. There was one blank paper. The PRESIDENT congratulated Mr. Parry on his re-election.

Mr. PARRY, returning thanks, said he was gratified by the renewed confidence of the Council. He, like the president, had felt that one year in the chair was not sufficient in view of the work which Mr. Skinner had looked forward to. In congratulating the president on being elected for another year, he added a word of personal thanks for the kindness and guidance extended to him by Mr. Skinner during the past year, and said they had got on excellently together.

## TREASURER RE-ELECTED

Mr. GUTHRIE was re-elected treasurer by nineteen votes, there being one blank paper. Acknowledging his appreciation, he expressed pleasure at the unanimity of the vote and the renewal of the Council's confidence.

## APPOINTMENT OF OFFICERS

In proposing the reappointment of the officers of the Society, the PRESIDENT paid a tribute to the help they had given to him during the year.

## COMMITTEES

The following is a list of the committees of the Council and Council representatives on other committees:—

*Benevolent Fund.*—Mrs. Freke, Messrs. Antcliffe, Beardsley, Bilson, Hardy, Keall, Simmonds and Wells.

*War Auxiliary Benevolent Fund.*—The members of the Benevolent Fund Committee.

*Finance.*—Mrs. Freke, Messrs. Bilson, Guthrie, Jenkin, Keall, Neathercoat and Wells.

*Publications.*—Messrs. Humphrey, Jack, Jenkin, Marns, Melhuish, Peck, Rowsell and Guthrie.

*Law.*—Messrs. Antcliffe, Beardsley, Hines, Jack, Marns, Rowsell, Sargeant and Simmonds.

*Establishment.*—Mrs. Freke, Messrs. Hines, Humphrey, Jenkin, Melhuish, Peck, Rowsell and Sargeant.

*Education.*—Messrs. Guthrie, Hardy, Hines, Jack, Melhuish, Peck, Rowsell and Sargeant.

*Organisation.*—Mrs. Freke, Messrs. Hardy, Keall, Marns, Neathercoat, Sargeant, Simmonds and Wells.

*Parliamentary Fund.*—Representatives of Council: President and Vice-President and Mr. White.

*British Pharmaceutical Conference Executive.*—Representatives of Council: President, Messrs. Marns, Parry and Neathercoat.

*Science.*—Representatives of Council: President, Vice-President, Messrs. Beardsley, Keall, Melhuish, Peck and White.

*Pharmacy Acts.*—President, Vice-President, chairman of the Law Committee, Messrs. Guthrie, Humphrey, Neathercoat, Parry, Rowsell and Sargeant.

*Quarterly Journal of Pharmacy—Editorial Committee.*—Representatives of Council: President, chairman of Journal Committee and Mr. Peck.

## ELECTIONS AND RESTORATIONS

Eleven persons were elected members of the Society and seven persons as student-associates. One person was restored to the Register and a number of persons to the Society. The registrar reported that sixty-two persons had been registered as apprentices or students.

## DIPLOMA DISCUSSION

Mr. PECK reminded the Council that at the last meeting there was a suggestion put forward that Pharmaceutical Chemist diplomas should be presented formally to the successful candidates. He thought they must not overlook the fact that the examination was a very serious one, for a candidate had to spend two years not in shop training but in an intensive course at a college of pharmacy approved by the Council. Indeed, the diploma was equivalent to the University degree, and was on all fours with the degree of the London University. The matter was referred to the Education Committee, who had come to the conclusion that the diplomas ought not to be sent to the successful candidates through the post, but ought to be presented formally. The following, among others, appeared to be suitable times for a presentation: at a Council meeting, at the opening of the Schools of Pharmacy in October, or at the subsequent Chemist and Druggist examination at the same time that chemist and druggist certificates were presented. Of these the Committee considered that the presentation at the opening of the school in October would be most appropriate. In the event of the Scottish candidates not being able to attend, they suggested that the diplomas should be presented to them at the first evening meeting of the North British Branch.

Mr. MELHUISH thought that with the inception of the new Major examination the Council should add dignity and importance to the distribution, and he thought the idea of making the presentation at the October meeting was a good one.

The PRESIDENT endorsed the observations of Mr. Peck and Mr. Melhuish. "I think you have found a very nice way out of the difficulty," he said.

## COUNCIL PRIZES

The report of the examiners on the Council Prizes Competition was received, and showed that the successful candidates were Hubert A. Turner and Mary E. Stevens. Mr. Turner, with 775 marks, was declared the winner of the Pereira medal, and Miss Stevens, with 705, winner of the Silver medal.

## EDUCATION COMMITTEE

The report of the Education Committee showed that a number of schools had been approved for the teaching of subjects in connection with the Preliminary, Scientific and Pharmaceutical Chemist Qualifying examinations. The report was adopted.

## BENEVOLENT FUND COMMITTEE

The report of the committee showed that eight applications had been received and grants made ranging from £10 to £30. The following special contributions were announced:—London Chemists' Golfing Society, £3 3s.; collecting box per W. Browne, 17s. 5d.; Alsop and Quiller, 11s. 5d.; Southampton Chemists' Social and Athletic Club, 12s. 6d.; Blackpool Branch, £1 16s.; Ealing Pharmacists' Association, 15s. 6d.; collecting box per R. R. E. Perkins, 17s. 6d.; Cheltenham and District Branch, £3 3s.; Dundee East and Central Scottish Branch, £3; late Oldham and District Pharmacists' Association, £3 10s. 1d.; Northants Pharmacists' Association, £3 3s.; "Nosmas," £5. *Orphan Fund.*—Cheltenham and District Branch, £1 1s. The report was adopted.

## WAR AUXILIARY BENEVOLENT FUND

This Committee reported that during the month four applications had been received, recommended grants

of £40 and £100, and stated that they had made other grants of £30 and £25 respectively. The report was adopted.

#### ESTABLISHMENT COMMITTEE

In the report of the Establishment Committee special reference was made to the retirement of the chairman, Mr. E. White. It was resolved:—"That the Committee place on record on the occasion of his retirement from the Council their appreciation of the able manner in which Mr. Edmund White has occupied the chair of the Committee for nineteen years, and their gratitude for the help and counsel he has so freely given during that period." The report was adopted.

#### FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £12 3s. 9d., amounted to £5,718 11s. 2d., comprising the following items:—

Subscriptions, £1,285 4s.; examination fees, £626 17s.; registration fees, £126; restoration fees, £1 1s.; certificates of qualification, £1 5s.; Pharmacological Laboratories, £158 11s.; penalties, £133 12s. 11d.; "Pharmaceutical Journal," advertisements, etc., £1,113 7s. 3d.; "Pharmaceutical Journal," student-associates' subscriptions, £2 12s. 6d.; Quarterly Journal, £38 15s. 10d.; "Pharmaceutical Pocket Book," £20 5s. 4d.; Pharmaceutical Press publications, £12 14s. 4d.; Registers, £11 1s. 6d.; "Year-Book," £8 5s. 3d.; B.P. Codex, 1923, £38 10s. 8d.; interest on investments, £621 0s. 10d.; sundries, £7 3s.; transferred from deposit account, £1,500. Payments ordered at the last meeting amounted to £5,677 1s. 6d., leaving a balance of £41 9s. 8d. The balances on the other accounts were:—Benevolent Fund (current account), £50 14s. 11d.; Benevolent Fund (donation), £39 12s. 11d.; War Auxiliary Benevolent Fund, £32 0s. 9d.; Orphan Fund, £35 12s. 8d. The report recommended that accounts amounting to £6,234 0s. 7d. be paid, and that the action of the secretary in making payments amounting to £1,014 19s. 5d. be approved.

#### BRITISH PHARMACEUTICAL CONFERENCE

A letter was read from the Pharmaceutical Society of Ireland officially inviting the Conference to meet in Dublin in 1929. The Executive resolved to recommend to the general meeting at Cheltenham the acceptance of the invitation. Invitations to the Conference to meet in Cardiff and Manchester in 1930 and 1931 respectively were received and provisionally accepted.

This was all the public business.

#### Glyn-Jones Memorial

A circular letter has been sent to members of the Society emphasising the appeal made through the pharmaceutical press for a memorial to Sir William Glyn-Jones (see page 716). The letter concludes:—"Whether you knew Sir William Glyn-Jones personally or not, if you who are reading this letter are in the drug trade, you are certainly in one way or another benefiting from his work. For this reason we have no hesitation in asking you to support this appeal. It is the duty of every member of the Pharmaceutical Society to respond generously and to endeavour in this way to pay to Sir William Glyn-Jones' memory some small part of the great debt due to him from each of us. Subscriptions should be sent to 17 Bloomsbury Square." The letter is signed by the president and secretary of the Society.

#### Branch Meetings

**Exeter.**—A meeting of the Exeter and District Branch was held on May 23, Mr. D. Reid presiding. Attention was drawn to the difficulty experienced by apprentices in following a systematic course of study in Part I subjects during their period of training. It was resolved that as local facilities for this purpose were inadequate, the secretary be instructed to raise the matter with the appropriate authorities.

**Lancashire (N.E.).**—A general meeting of the North-East Lancashire Branch was held at Blackburn on

May 8. Mr. A. Dobson presided over a good attendance, which included pharmacists from Blackburn, Darwen, Accrington, Haslingden, Church, Oswaldtwistle, Clitheroe, Rishton and Great Harwood. Mr. Dobson said that one object of the gathering was to consider the formation of a junior branch. The question was fully dealt with at the annual meeting. Mr. E. H. Simmons (Salford), in a comprehensive review of pharmaceutical affairs, dealt with the changes which had been made regarding entry to the profession, and said that the introduction of the articles of pupilage would have a good effect, for this would tend to make both master and apprentices realise their responsibility. The speaker outlined the action taken by the Council to ensure better facilities through their schools. On the question of apprentices in wholesale houses, he thought they were prejudiced somewhat by the regulations now in force. Increased membership was due to the growth of the branch system throughout the country, and also to the valuable work done by the Society in protecting the interests of its members. Mr. Simmons emphasised the value of the title "pharmacist," though he would be the last person to give away their legal right to the title of "chemist and druggist." The Law Committee of the Society had also been active during the year, and many visits had been paid to shops. In any future legislation arising out of the report of the Government Committee they might rest assured that the Council would make every effort to remove a great number of anomalies which undoubtedly existed at the present time and hindered the progress of pharmacy. The success of this reform depended on securing adequate representation in the House of Commons at the earliest possible moment. He congratulated the Blackburn Branch on its increased contributions to the Benevolent Fund.

**London (S.W.).**—The first annual meeting of the junior section was held on May 30, Mr. S. S. Jacobs in the chair. A concert and play were given, and the business of the meeting was carried out during the interval. Apprentices, students and seniors numbered 200. A committee was elected for the coming year. It was reported that it had been impossible to obtain grounds for tennis or football. A successful inter-collegiate billiard match had been held and won by the Westminster College. Medals were presented by Miss Borrowman to the successful team, Messrs. Conner, Cooper, Oakes and Robinson. The chairman reported a successful year. Mr. Gulliver was M.C. for the concert and play. The orchestra, composed mainly of juniors and conducted by Mr. R. Mumford, delighted the audience. There were songs by Mr. R. Mumford and community singing conducted by Mr. A. M. Minnis. After the interval, during which refreshments were served, a one-act play, entitled "A Thread o' Scarlet," by J. J. Bell, was given. This was well acted by Messrs. F. G. Cayzer, S. Malk, R. S. Cayzer, C. Minnis, E. Hart and W. Duncan. The meeting terminated with votes of thanks.

#### British Pharmaceutical Conference

##### Preliminary List of Papers

Members intending to contribute papers are reminded that the last date for the receipt of manuscript for the Cheltenham meeting is June 25. The honorary secretaries will be glad to have the titles of papers as soon as possible. The following papers have been promised:—

- (1) "The Use of Iron Reagents in the Detection and Differentiation of Phenols," by A. H. Ware, Ph.C.
- (2) "Apiol," by J. R. Walmsley, F.I.C., Ph.C., F.C.S.
- (3) "Infusion of Senega," by J. F. Liverseege, F.I.C., Ph.C.
- (4) "Iron and Ammonium Citrate of Commerce: its Composition and Behaviour in certain Solutions," by G. J. W. Ferrcy, B.Sc., A.I.C.
- (5) "Mercury Ointment," by J. H. Franklin, Ph.C.
- (6) "Compound Tincture of Benzoin," by T. Tusting Cocking, F.I.C.
- (7) "The Testing of Barium Sulphate for X-Ray Purposes," by T. Tusting Cocking, F.I.C.
- (8) "The Purity of Ether for Analytical Purposes," by G. Middleton, B.Sc., A.I.C.

## Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students,"  
The Chemist & Druggist, 42 Cannon Street, London, E.C.4."

### Report on the May Analytical Exercise

THE powder distributed to students on May 8 contained one part by weight of potassium chloride, eight parts of potassium bromide, and one part of potassium iodide. The calculated composition of such a mixture is:—

K	...	...	...	...	...	33.9
Cl	...	...	...	...	...	4.8
Br	...	...	...	...	...	53.7
I	...	...	...	...	...	7.6
						100.0

Samples of the powder were distributed to nineteen students and eight reports of analyses were submitted for examination. Potassium and the iodide were detected in every case, but the bromide was missed by one student and the chloride by four. The salts comprising the mixture all crystallise free from water, but hygroscopic moisture was present in small proportion.

This exercise, while otherwise an exceedingly simple example, was designed specially with a view to directing the attention of junior students to two analytical problems which they are tolerably certain to meet with elsewhere, namely, the detection of chloride in small proportion, in presence of bromide or iodide, or of both, and the detection of nitrate in presence of bromide. In connection with the first of these problems, it may again be emphasised that treatment of the mixed silver halides with dilute ammonia solution effects only a very partial separation of silver chloride from silver bromide, since the latter, when freshly precipitated, is dissolved to quite an appreciable extent, along with silver chloride, by the very dilute solutions of ammonia employed by many students in attempting to make a separation. Such a separation being, at best, only a roughly approximate one, the test is altogether unsuitable for ascertaining whether or not chloride in small proportion is present in admixture with much bromide. One of the simplest methods of dealing with the matter in the present analysis consisted in dissolving the powder in water and boiling in a small beaker with moderately diluted nitric acid until the whole of the iodine and bromine had been expelled. In applying this process, the nitric acid should be added in several successive quantities and care must be taken that the acid is not too concentrated and that the volume of the liquid is never permitted to become too small, as, otherwise, loss of chlorine may also occur. When the iodine and bromine have been completely eliminated, the presence of chloride can be tested for in the usual way by means of silver nitrate.

Since the usual test for nitrate by means of ferrous sulphate and concentrated sulphuric acid is interfered with by the presence of bromide, which yields a brown layer of bromine at the interface where the dark "ring" due to nitrate makes its appearance, steps had to be taken to overcome this difficulty. One possible method was to remove the bromide in the form of silver bromide by interaction with excess of silver acetate followed by filtration, and then to test for nitrate in the filtrate. Silver acetate was probably not available for most students, but it could be prepared in solution by precipitating silver nitrate with sodium carbonate, filtering, thoroughly washing the precipitate with water until the washings passed through free from nitrate, and then dissolving in dilute acetic acid. The absence of nitrate was perhaps most easily proved by employing the test with salicylic acid and concentrated sulphuric acid, followed by the action of potassium hydroxide on the product.

### PRIZES

The first prize for the best analysis has been awarded to:—

C. A. NAYLOR, The Dingle, Mellor Road, Marple Bridge.

The second prize has been awarded to:—

ROBERT JOHN LINTON, 147 Wellsway, Bath.

*First Prize.*—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

*Second Prize.*—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book or books they select.

### MARKS AWARDED FOR ANALYSES

C. A. Naylor (1st Prize)	92	Laxey	...	...	...	75
R. J. Linton (2nd Prize)	86	Nemo	...	...	...	72
Cantab	77	D.R.G.M.	...	...	...	72
		Scotia	...	...	...	56
		Yttrium	...	...	...	

### TO CORRESPONDENTS

C. A. NAYLOR.—Using a gram of the powder for the experiment, we failed to obtain any reaction with barium chloride to indicate the presence of a trace of sulphate.

R. J. LINTON.—We were not satisfied that you completely established your conclusion that a chloride was present. See the general remarks. Boiling the powder with sodium carbonate to prepare a solution for testing for acidic radicals was quite superfluous in the present analysis.

CANTAB.—It is not possible to recognise the presence of chlorine in small quantity in admixture with much bromine vapour by mere inspection. The crude test of tasting an unknown substance is not to be commended. See the general remarks regarding tests for nitrate in presence of bromide.

LAXEY.—Carried out with all due precautions, the chromyl chloride test for chloride ought to have given a slight, but distinct, positive reaction.

NEMO.—Ferric sulphate and manganous oxalate and tartrate are examples of practically colourless substances which yield distinctly coloured borax beads.

D.R.G.M.—The reactions which you report in your testing for a chloride are so obscure as to be quite incomprehensible: in any case they do not establish your conclusion that a chloride was present. We are entirely at a loss to understand how you obtained reactions which led you to conclude that the powder contained magnesium, lithium, strontium, sulphite, and nitrite.

SCOTIA.—Note that borates do not contribute a green colour to the Bunsen flame. The green colour is given by free boric acid. What colour is observed in preparing a borax bead?

YTTRIUM.—A careful test for ammonium failed to furnish any evidence of its presence. The tests which you applied did not establish the presence of a chloride, and the results you obtained from them were due mainly to the bromide.

\*\* The analytical exercises in this column are now discontinued until October.



FLOWERING TOPS OF DIGITALIS CULTIVATED BY PROFESSOR KIMURA  
AT THE EXPERIMENTAL STATION AT KAENKABE, TOKIO

## Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### ENGLAND AND WALES

#### Local Reports

**Blackburn.**—A meeting of the Insurance Committee was held on May 15. It was reported that during the month of March 33,493 prescriptions were dispensed in Blackburn; the cost of the ingredients was £577 16s. 6d. and the dispensing fees £633 4s. 2d.

**Cardiganshire.**—The Insurance Committee at a meeting on May 4, passed a resolution that they are of opinion that separate autonomy should be granted to Wales on the same basis as granted to Scotland in the administration of the drug fund.

**East Ham.**—It was reported to the Insurance Committee on May 30 that the prescriptions issued during the quarter ended March 31 numbered 71,591, against 82,230 in the corresponding period of last year, and that the cost had decreased from £2,872 16s. 9d. to £2,477 2s. 9d. Panel chemists had been instructed to place the date of supply on bottles of medicine dispensed for insured persons.

**Gloucestershire.**—At a meeting of the Insurance Committee, recently, the Pharmaceutical Service Subcommittee reported that they had investigated two cases of inaccurate dispensing by chemists from whom samples had been taken for analysis. In the first case the analyst's report showed an excess of 10.5 per cent. of magnesium sulphate in an iron mixture, and the explanation of the chemist was to the effect that the excess of magnesium sulphate was due to the water of crystallisation having evaporated. The Subcommittee recommended that he should be admonished. In the second case the medicine ordered was the same as in the first case, and after calculations had been made the excess of magnesium sulphate was found to be 15.3 per cent. The explanation was as in the previous case, and it was recommended that he also be admonished.

**London.**—The monthly meeting of the Insurance Committee was held on April 26. The Finance Subcommittee recommended the payment of accounts amounting to £226,074 16s. 9d., including to chemists for the medical year 1927-28, £25,582 11s. 2d. The accounts were passed. The Medical Benefit Subcommittee submitted the following statistics with reference to 1927 and 1928:

January 1927      January 1928

Total number of prescriptions .. ..	1,049,936	857,014
Cost of ingredients .. £15,718 15s. 3d.	£13,194 8s. 5d.	
Cost of dispensing fees .. £19,882 8s. 4d.	£15,864 0s. 1d.	
Total cost of prescriptions £35,601 3s. 7d.	£29,058 6s. 6d.	
Av. cost of ingredients .. 3.59d.	3.70d.	
Av. cost of dispensing fees .. 4.55d.	4.44d.	
Av. total cost per prescription .. 8.14d.	8.14d.	
Total No. of persons on Lists .. ..	1,747,749	1,790,156
Average number of prescriptions per person .. 0.60	0.48	
Av. cost per insured person .. 4.89d.	3.90d.	

**Salop.**—At a meeting of the Insurance Committee, on May 5, it was reported that the Ministry of Health had notified that they had decided to withhold the sum of £1 in each of two cases of chemists who had failed to comply with the regulations under the test scheme.

**Sheffield.**—At a recent meeting of the Insurance Committee the clerk reported a case in which the Committee had decided to charge a practitioner with the cost of a tablet of medicated soap, which in their opinion was not a proper charge upon the drug fund. The practitioner had appealed to the Minister of Health. The Sheffield Panel and Local Medical Committee had reconsidered the case and adhered to their former opinion, but pointed out that the opinion was not intended for application in all cases when medicated soaps were ordered, but solely for this case. The Committee decided to reaffirm their surcharge. Eight medicines tested, and four proved correct. The city analyst showed discrepancies in the

remaining four, which were sent to the Joint Services Subcommittee. The monthly account for dispensing was £2,519 2s. 5d. The Sheffield Panel Committee reported on the case of a practitioner who had ordered on each of five prescriptions Virol 1 lb. They gave as their opinion that it was not a proper charge upon the drug fund. The Insurance Committee decided that the cost should be recovered from the practitioner.

**Somerset.**—A meeting of the Somerset Panel Chemists was held at Weston-super-Mare on May 17, Mr. Hodder (Frome) in the chair. Mr. John Boyd (Taunton) raised the question as to the unsatisfactory conditions of remuneration prevailing under the present N.H.I. dispensing service, and pointed out that same compared most unfavourably with those obtained by the Scottish chemists. A lengthy discussion followed, and a vote was taken, which resulted in twelve to three in favour of the delegates at the next conference pressing for the Scottish tariff. The secretary was asked to forward this resolution to headquarters.

**South-Eastern Division.**—The report of the Joint Committee for Pricing Prescriptions (South-Eastern Division) gives the following statistics, among others, for 1927:

Year	No. of persons on panel	No. of prescript.	Av. cost per prescript.		Av. cost per person
			£	s. d.	
1916 ..	932,266	2,510,345	64.347	17 11	6.1
1921 ..	1,132,722	3,289,621	136.616	2 2	9.9
1926 ..	1,281,163	4,864,441	179.132	18 6	8.8
1927 ..	1,340,309	5,446,534	197.963	18 5	8.7

The ingredient price of prescriptions dispensed in 1927 was £96,427 2s. 2d.; the average ingredient price per prescription was 4.2d.; and the frequency per insured person 4.1. For 1926 the figures are as follows:—Ingredient price £88,666 0s. 8d., 4.4d., and 3.8d. respectively. Prescriptions for insulin during 1927 numbered 8,697 and cost £3,593 16s. 5d. Hypodermic syringes numbered 192 and needles 821, the cost being £30 16s. and £35 13s. 9d. respectively. The number of prescriptions disallowed during the year was 934; of this number 307 were for brushes. The others were for:—(1) Articles in the nature of foods such as Bemax, Bovril, calf's-foot jelly, coffee, essence of chicken, Glaxovo, Hi-ge-ah tea, Horlick's Milk, ice, meat enules, nutrient peptone, ox-meat juice, Ovaltine, pearl barley, Plasmon oats, and Postum. (2) Articles used for testing purposes, such as Benedict's and Fehling's Solution, red and blue litmus paper, and eosin solution. (3) Appliances not included in the second schedule to the regulations such as anklets, capsicum wool, catgut, comedo extractors, crutch rubbers, douche tubing, elastic stockings, eye-shades, finger stalls, gamgee, glass rods, graduated enamel jug, inhalers, knee caps, nasal spray, safety pins, sphagnum moss, spongiopiline, sputum bottles, supports for feet, temperature charts, test tubes, Thermogene wool, trusses, vaccination pads and Yeo mask. (4) Toilet articles such as orange sticks and Lait Larola. (5) Disinfectants expressly ordered for that purpose, such as cresol, Izal, Jeyes' Fluid, and liquor picis carbonis.

**Warwickshire.**—At a meeting of the Insurance Committee held in Leamington on May 1, the report of the Pharmaceutical Service Subcommittee showed that the analyst had taken exception to the use of cardboard boxes for dispensing ointments, reporting that owing to the use of these boxes a certain proportion of the fatty basis of the ointment had been absorbed, and that it was therefore impossible for him to return a correct analysis, and, further, that in his opinion the insured person was for the same reason not obtaining what the doctor intended he should have. The representative of the Pharmaceutical Committee pointed out to the Insurance Committee that no provision was made for the use of any particular box or jar for ointments, and that the suggestion of the analyst that a glass container with screw cap should be used was impracticable unless the patient supplied or paid for such a container. He agreed, however, that the use of a cardboard box was undesirable, and after some discussion it was resolved that a circular be issued to the effect that cardboard boxes should not be used for the purpose of dispensing ointments unless rendered greaseproof.

## The Position of Cod-Liver Oil

CONSIDERABLE interest has again been shown this season in Norwegian cod-liver oil on account of the increasing attention displayed by the medical authorities in the vitamin question. Furthermore, the continued uncertainty of the production each season is responsible for the many varied opinions given from Norway at the opening of the season. The production or yield varies from year to year, and appears to run in cycles; hence the "record" yield of 1926, viz., 120,954 hectolitres, was preceded by fairly heavy productions in the previous four seasons. Last year, however, there was a substantial reduction, the total yield from all parts of Norway amounting to 71,997 hectolitres, a reduction of approximately 40 per cent. on the yield of 1926; whilst for the present season the production is estimated at a total of 50,000 hectolitres. This reduced yield, amounting to approximately 20,000 barrels less than that of 1927, can only be regarded as serious, and in certain well-informed quarters the reduced production of the past two seasons, viz., 1927 and 1928, is regarded as an ominous sign, and the possibility of an even smaller production during the next few seasons is regarded as most likely. Statisticians should take careful note of the fact that the production of medicinal oil this season is the smallest experienced for the past fifteen years, outside the war period, when statistics were not regarded by the authorities with any reliability, as practically every class of craft was required for freight purposes. Whether the startling decrease of the past two seasons will be continued it is, of course, impossible to anticipate. The leanness of the livers this year has been most pronounced, and whereas shoals of codfish have been caught, the yield of the livers has been noticeably deficient, as will be seen from the comparative figures given below:—

*Kilos. of Codfish required to give one hectolitre of livers.*

1928	...	...	1,690—1,760	kilos
1927	...	...	1,345—1,430	kilos
1926	...	...	945—1,229	kilos
1925	...	...	1,033—1,145	kilos

These figures are conclusive proof of the leanness of the livers this season. Furthermore, the shoals of lodde (a small fish which is the principal food of the cod) have again been conspicuous by their absence this season, hence this lack of bait, and the resulting poor yield of cod-liver oil. Although at times a certain amount of scepticism is shown by buyers as to the accuracy of the weekly statistics, it may here be stated that their authenticity need not be questioned, as they are issued by the Norwegian Government Fishery Board, and every care and attention is given by the authorities to establish their accuracy. We have specially compiled and give below some interesting figures showing the total output of cod-liver oil in Norway since the year 1906, together with the approximate values ruling during this period:—

Date	Hectolitres cod-liver oil	Prices C.I.F., London
June, 1906	.. ..	42,908
" 1907	.. ..	46,889
" 1908	.. ..	59,104
" 1909	.. ..	50,460
" 1910	.. ..	41,024
" 1911	.. ..	43,318
" 1912	.. ..	76,202
" 1913	.. ..	48,263
" 1914	.. ..	57,171
" 1915	.. ..	52,238
" 1916	.. ..	60,000
" 1917	.. ..	37,100
" 1918	.. ..	20,500
" 1919	.. ..	37,600
" 1920	.. ..	58,951
" 1921	.. ..	56,621
" 1922	.. ..	78,259
" 1923	.. ..	81,023
" 1924	.. ..	111,748
" 1925	.. ..	90,950
" 1926	.. ..	120,954
" 1927	.. ..	71,997
		s. s. 60 to 76 per barrel 65 " 86 " " 56 " 75 " " 61 " 78 " " 75 " 105 " " 105 " 150 " " 58 " 90 " " 80 " 115 " " 62 " 90 " " 110 " 360 " " no reliable figures available. 80 " 175 " " 85 " 108 " " 85 " 108 " " 85 " 120 " " 105 " 170 " " 100 " 140 " " 117 " 180 " "

For the purposes of calculation it should be noted that a 25-gallon barrel is equal to 1.16 hectolitres, and

that the above figures represent crude medicinal oil, about ten per cent. being lost in the refining process. A close survey of the above figures taken in conjunction with this year's estimated production of 50,000 hectolitres, show in 1927 a reduction in output of 40 per cent. over that of 1926, whilst this season there is a further reduction of 30 per cent. over that of last year. The prominence given in every quarter to the vitamin question has not only resulted in greater interest being taken in medicinal cod-liver oil, but a new and important outlet is the increasing demand for the veterinary or cattle-feeding cod-liver oil, and the leading authorities here are now recommending its suitability for all kinds of poultry and live stock. The cattle-feeding oil sold nowadays is a sweet pale oil, and bears no comparison to the class of oil sold a few years ago, which was mostly dark in colour, and of a very strong odour.

During the past two seasons a certain amount of prominence has been given to Scotch cod-liver oil, chiefly on account of the higher prices ruling for the Norwegian. The Lofoten cod-liver oil still holds its previous high reputation, but in these competitive days, a buyer is often inclined to purchase a cheaper priced article in cases of emergency. The fact that the Scotch oil is often lower in price than Norwegian, when prices rule high, is one that is attractive in certain quarters, regardless of the difference in quality. A factor which some consumers have lost sight of is that below a certain price this Scotch oil would be unable to compete. It is only natural that with its comparative small production Scotch manufacturers are in the position to compete whilst cod-liver oil prices rule high, but were prices to drop to the neighbourhood of 100s. per barrel—a normal price—it would be found a non-profitable proposition for these small makers.

As to future prospects of the market, it is always a matter of extreme difficulty to venture an opinion. One thing is fairly certain, and that is, consumers in this country, as well as those abroad, have covered only a small proportion of their requirements in the hope that a more prolific Finmarken fishing would help to swell the Lofoten production, and ultimately help to force down prices. The Finmarken fishing, however, has unfortunately been exceedingly poor, and the cost of this oil to manufacturers is estimated to be well above that of the Lofoten oil. This certainly was the case last year, when the Finmarken fishing was practically a complete failure. This season the price of new oil opened at 150s. per barrel, whilst towards the middle of March, prices sharply advanced, and up to 175s. was secured for a fair quantity, as at one time it appeared that the Lofoten production would be insignificant. In the United States, the demand so far has been much below expectations, but it is expected that a fairly substantial quantity has still to be bought, the purchasing of which will probably be delayed until the early autumn. In view of the amount of oil that is still required by the trade, it is not unlikely that in the event of any large purchasing, the Norwegian manufacturers would in all probability stiffen their price, as at the present figure of around 165s. c.i.f., producers report that it gives them little margin of profit, on account of the high prices demanded by the fishermen for the livers throughout the season. In these circumstances the present price may be regarded as sufficiently attractive to consumers to cover at least a portion of their future requirements.

**FOOD AND DRUGS (ADULTERATION) BILL.**—The Stationery Office has published the text of a Bill (9d.) introduced into the House of Lords for the purpose of consolidating the Sale of Food and Drugs Acts. The Fourth Schedule gives the titles of the eleven Acts that it is proposed to repeal entirely or in part. A limited application to Northern Ireland is contemplated.

**PROSPEROUS NATIONAL INSURANCE PATIENTS.**—A speaker at the conference of the National Association of Clerks to Insurance Committees at Bournemouth, held on May 21, suggested that doctors were ordering unduly large quantities of drugs. Another speaker said that one prescription he had seen had been a pound of malt and oil, and this had been ordered nine times within a month. The Chairman: Is the patient still living? A delegate: He keeps a motor-car now.

## Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

### 42 Cannon Street, E.C.4, June 7

GENERAL dullness characterises the Mincing Lane produce markets, particularly the speculative items like sugar, pepper, shellac and rubber, which have all eased in value. Among drugs, ipecacuanha is weaker owing to arrivals; chamomiles met with a fair demand. Vanilla at auction only partly sold at easier prices, except for foxy and split, which were in good demand at full rates. Makers of Norwegian cod-liver oil have advanced their prices owing to the partial failure of the Finmarken fishing. The main feature in the essential oil group is the advance in Bourbon geranium and lemon. Sicilian sweet orange is a little easier, though the position is actually unaltered. Other prices show little alteration. Among pharmaceutical chemicals business has been somewhat disappointing and keen competition characterises a number of items. The chief changes include an advance in aspirin and salicylic acid. B.P. tannic acid is firmer. Citric and tartaric acids are quiet; vanillin may harden following on dearer cloves; pure caffeine is cheaper, and a convention has been formed in emetine salts. Among the industrial chemicals reports from most quarters indicate quiet conditions, with prices unaltered. Cream of tartar still meets with a poor demand; all potassium products are quiet and unchanged. In coal tar products, carbolic acid crystals continue steady with a fair demand, while cresylic acid remains active for all grades. Among the vegetable oils conditions have been quiet with little change. Palm oils are dull and easier; castor is the turn cheaper, while cotton oils are firm; soya is easier, and Hankow wood dearer, but slow of sale. Turpentine at the close is 9d. dearer.

Higher	Firmer	Easier	Lower
Adrenalin	Ginger (W. African)	Antimony (c.i.f.)	Ammonia sulphate (export)
Aspirin	Peppermint oil (Jp.)	Castor oil	Benzonaphthol
Carmine	Tannic acid (B.P. leviss)	Hexamine	Caffeine, pure crystals
Cod-liver oil (Norw.)		Ipecacuanha	Cananga oil
Galls (Chinese)		Orange oil	Linseed oil
Geranium oil		Palm oils	Shellac
Lemon oil		Soya oil	
Salicylic acid		Vanilla	Sugar
Turpentine			
Wood oil (Hankow)			

### Cablegram

BERGEN, June 6.—The catch of cod since the opening of the season amounts to 62,200,000, against 63,100,000 at the corresponding period of last year, and the yield of steam-refined non-freezing oil is 49,171 hectolitres, against 69,318 hectolitres at the same period last year. Market is dearer at 16s. per barrel, c.i.f., for finest new Lofoten steam-refined non-freezing oil.

### Crude Drugs, etc.

ACONITE ROOT.—Japanese is quoted at 60s. on the spot. AGAR-AGAR is quiet at 3s. 7d. per lb. spot for No. 1 Kobe and to arrive 3s. 4d. c.i.f. is quoted.

ALOES.—The "Walmer Castle" has brought 130 cases from the Cape. The exports from the Union of South Africa during January 1928 amounted to 73,528 lb. (£576), against 48,326 lb. (£357) in January 1927.

ANTIMONY.—The tone was dull and English high-grade remains at £59 10s. to £60. Chinese regulus on the spot is worth about £41 10s., but for small lots sellers are asking £42 and more. Terms for shipment from China are easier again at about £40 10s. c.i.f.

ANECA.—Sound Ceylon continue to be offered at 37s. 6d. per cwt. on the spot.

BAEL FRUIT of good quality is offered at 45s. per cwt. BALSAMS.—*Canada* is firm at 6s. 6d. per lb. *Tolu* is 3s. 6d. for good hard bright.

BUCHU.—The exports from the Union of South Africa during January 1928 amounted to 12,446 lb. (£493), against 6,504 lb. (£293) in January 1927.

CAMPHOR (REFINED).—Japanese slabs are dull of sale at 2s. 4d. per lb. on the spot, and for May-June shipment sellers quote 2s. 2d. c.i.f.

CARDAMOMS.—An auction of 60 cases Indian will be held (to-day), June 7.

CARMINE is dearer at from 23s. 6d. to 24s. per lb. for pure Nacarat.

CASCARA SAGRADA.—New crop is quoted at 51s. per cwt. c.i.f. in 5-ton lots; spot value is 60s., and three-year old 65s. per cwt. The "Pacific Pioneer" from Tacoma has brought 269 bags, and the "Loch Katrine" 810 bags from Seattle.

CHAMOMILES meet with a fair inquiry, good white Belgian selling at 100s. down to about 60s. per cwt. on the spot as to colour.

CLOVES.—Zanzibar are firmer, with sales on the spot at 9s. per lb. To arrive, August-October shipment has been sold at 8s. to 9s. per lb. c.i.f. The landings during the week ended June 2 were 261, and the deliveries 863, leaving a stock of 11,393 bales, against 12,833 in 1927 and 17,107 in 1926. The landings of Zanzibar during the period January 1 to June 2, 1928, were 9,732 bales, against 13,698 for 1927, and the deliveries 7,868, against 8,468 in 1927.

COCOA BUTTER on the spot is offered at 1s. 8s. per lb. for C.F.R. and at 1s. 8s. per lb. for prime English, in not less than one-ton lots.

COD-LIVER OIL.—The Finmarken fishing having proved somewhat of a failure, some of the Norwegian makers have advanced their prices, asking up to 16s. per barrel c.i.f. for finest non-freezing steam-refined Lofoten oil. The position of cod-liver oil is dealt with on p. 730.

BERGEN, June 2.—The progress of the catch at Finmarken is rather limited and the fishery is considered unsuccessful. The total output of all the Norwegian codfisheries, compared with that of previous years, is as follows:—

To	Catch of cod.	Yield of steam refined c.o.	Livers for crude oils. hectol.
May 26, 1928..	60,900,000	48,389 hectol.	9,256 hectol.
" 28, 1927..	61,200,000	67,996 "	6,957 "
" 29, 1926..	81,800,000	111,859 "	13,375 "
" 30, 1925..	55,100,000	85,936 "	9,454 "
" 31, 1924..	62,400,000	105,549 "	15,772 "

The tendency of the market is now firm and sellers are trying to advance the price, while buyers seem inclined to follow. Finest non-freezing steam-refined oil is quoted at 16s. per barrel c.i.f. London.

ELM BARK in selected bundles is quoted at 10s. per lb.

ERGOT.—Russian and/or Polish is quoted at from 2s. 8d. to 2s. 9d. per lb. on the spot. Small sales have been made at about these prices.

GALLS.—Chinese are again dearer at 62s. per cwt. c.i.f. for plum-shaped for June-July shipment and 62s. c.i.f. for ordinary shape. Bagdad are quiet, with blue offering at about 47s. 6d. per cwt. The stock of galls is 1,544 against 1,064, and the landings to date have been 605 against deliveries of 203.

GINGER.—West African is firmer, with spot sales at 56s. to 58s. per cwt. To arrive, June-July shipment is quoted at 54s. per cwt. c.i.f.

HEN YOLK is firm; dried Chinese on the spot is 1s. 11d. per lb., and May-June shipment is 1s. 11s. per cwt. Prime Chinese hen is 2s. 5d. spot, and May-June shipment 2s. 4d. c.i.f.

IPPECACUANHA is weaker in view of the heavy arrivals. The landings of Matto Grosso during May were 133 bales and the deliveries 23, leaving a stock of 310. This stock is certainly above normal, and the arrivals are evidently due to the extremely high prices prevailing over a year ago. At that time it was feared that the drug was nearing exhaustion point, but evidently supplies have been drawn from hitherto unexplored regions. Small lots of good Matto Grosso are obtainable at 10s. and quantity at less. Minas is about 12s. 6d. and Cartagena 11s. per lb. The "Takeha" from Monte Video has brought 44 bales of Matto Grosso, and the "Alcantara" from Buenos Ayres 11 packages.

KOLA continues very scarce, the value of sound West Indian being about 7d. to 7½d. per lb.

LIME JUICE is in good demand, prices ranging from 2s. 10½d. to 3s. 3d. per gallon as to quality; spot stocks are extremely small.

LIQUORICE ROOT.—Good cut decorticated is quoted on the spot at from 57s. 6d. to 60s.; Anatolian decorticated lengths is 45s. spot.

LOBELIA HERB is offered at 5½d. per lb. on the spot.

MAGNESIUM.—There is still a good steady demand and the supply of raw is only about adequate to go round, so that the market is very firm at 4s. to 4s. 3d. per lb. for small ingots or sticks. Powder is 5s. 6d. to 6s. 6d. per lb., according to quality and quantity.

MASTICH is in short supply and slow of sale, the spot value being about 2s. 6d. per lb.

MENTHOL is firm at 15s. 9d. per lb. for Kobayashi and/or Suzuki on the spot.

MERCURY continues firm in spite of a continued strictly hand-to-mouth demand, while consumers are living in hopes of an easier market sooner or later. Of this, however, there is no indication at present, and the attitude of the Continental mines is still firm with the f.o.b. price pegged at £21 10s. per bottle. Spot terms here ranged from £22 5s. to £22 7s. 6d. per bottle. There has been very little inquiry from the usual Eastern markets, and the position in New York is unchanged with sellers asking between \$124 and \$125 per bottle duty paid.

PEPPER is quiet and the turn easier. Fair black Singapore is 1s. 6½d., Lampung 1s. 6d., Tellicherry 1s. 6½d., Alleppy 1s. 6½d., and white Muntok 2s. 3½d. per lb., all spot. Arrival values have eased, the sales including Lampung for August-October shipment at from 1s. 3½d. to 1s. 3d. to 1s. 3½d. c.i.f. Muntok for August-October shipment has been done at 2s. 0½d. to 2s. c.i.f.

PIMENTO is quiet at 8½d. per lb. on the spot, and for June-July shipment 76s. per cwt. c.i.f. is quoted.

PLATINUM is unaltered and the market is still very quiet at £17 to £17 2s. 6d. per oz., according to quantity. American imports for the first three months of this year at 51,406 oz. show an increase of roughly 16,000 oz., compared with the same period last year.

PODOPHYLLUM ROOT.—Indian is quoted at 45s. c.i.f. to come forward.

RUBBER still continues to maintain interest, and is distinctly easier on the week, spot having dropped fully 3d. per lb. in the interim. The weakness, which is regarded as temporary only, is mainly due to the liquidation of the June position, fair quantities having been flung on the market for the first prompt. Meanwhile this has all been absorbed by the dealers, and the market closes steady at the decline. The statistical position still attracts considerable attention, and last week arrivals totalled 1,292 tons, whilst deliveries were 2,204 tons, showing a further decrease of 912 tons in the stocks. The London stock now stands at 43,716 tons, against 67,105 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.) :—No. 1 standard ribbed smoked sheet spot and June 9½d.; July/September and October/December, 9½d. per lb.

SARSAPARILLA.—Genuine grey Jamaica is quoted at from 2s. 2d. to 2s. 3d.; good red native Jamaica at 1s. 10d. down to 1s. 8d., Mexican is 9d. to 9½d., Honduras roll 2s. to 2s. 6d., and *facon* 2s. 1d.

SEEDS.—Business has been exceptionally quiet over the past week with the market showing no change of any importance. ANISE.—Spanish 50s., Levant, 34s., Russian 28s. CANARY remains firm, Mazagan 16s., and Saffi 15s. 6d. per cwt. on the spot. CUMIN.—Maltese is 56s., and Morocco 52s. 6d. on the spot; new crop is offered at 36s. 6d. c.i.f. for June-July shipment. CORIANDER.—Morocco is 46s. on the spot, and new crop is quoted at 20s. 6d. c.i.f. for June-July shipment; Russian is 35s. spot.

FENUGREEK.—Morocco is 16s. 6d. spot, and new crop is offered at 14s. c.i.f. for July/August shipment.

HEMP.—Manchurian is 19s. spot. LINSEED.—Mazagan is 21s. on the spot, and new crop is offered at 19s. 6d. c.i.f. for July-August shipment. MUSTARD.—English is 27s. per cwt.

SHELLAC is easier, usual standard TN orange quality offering at 200s. per cwt. on the spot; fine orange is 225s. to 300s., pure button 235s., and AC cakey 200s. To arrive

TN for April-May shipment is quoted at 180s., and May-June at 172s. 6d. c.i.f. Sales for delivery include TN for August at 184s. to 180s. to 177s., October 184s. to 176s., and December 181s. to 173s.

TRAGACANTH.—A fair amount of business has been done in recent arrivals, the medium and better grades finding ready buyers. Bagdad firsts are quoted at £28, seconds £22 to £24, and thirds £18 to £20 per cwt. London stock on May 31 was 6,664, against 11,923 at the same date of 1927; the landings to date have been 4,090, and the deliveries 5,187 packages.

VANILLA.—At auction on Tuesday 420 tins offered and partly sold; seconds and foxy splits were steady, while firsts were in small request at easier prices; of Seychelles, 278 offered and 230 sold, comprising good crystallised firsts 6 to 7½ in., 6s. 9d. to 7s. 3d.; fair firsts, 7 to 8 in., 6s. 6d. to 7s.; 3 to 7 in., 5s. to 6s.; seconds, 6 to 7 in., 5s.; 3 to 5 in., 4s. 9d. to 5s., foxy and split, 4s. 3d. to 5s. 3d.; 120 tins Madagascar offered and 40 sold, including, good firsts, 7½ to 8½ in., 7s. to 7s. 6d.; 5½ to 7½ in., 5s. 9d. to 6s. 6d.; 3½ to 5 in., 5s. 6d. to 6s.; seconds, 4 to 6 in., 5s. 3d. to 5s. 9d.; splits, 4s. 6d. to 4s. 9d.; 18 tins Ceylon sold at 4s. 6d. per lb. for reds and splits.

WAX (VEGETABLE).—*Carnauba* is very quiet. Fatty grey is 125s. per cwt. spot and 121s. 6d. c.i.f.; chalky spot is 127s. per cwt., 125s. afloat and 124s. c.i.f. to arrive. *Japanese* is steady at 82s. 6d. per cwt. on the spot and 78s. c.i.f. for May-June shipment.

#### Essential Oils

LAST month, while the bulk of business done was perhaps below the usual, price changes were in the sellers' favour. Firm and higher prices are general and there have not been any serious declines. Geranium and lemon show further advances, while Japanese peppermint is firmer. Sicilian orange is easier both forward and on the spot, while cananga is slightly lower.

ANISE (STAR).—"Red Ship" is unchanged at 2s. 5d. per lb. (nominal) on the spot, with little interest shown.

BERGAMOT is steady and unchanged at 23s. 6d. per lb. c.i.f., with the spot value at 23s. 6d. to 24s. for 37 to 38 l.a.

CANANGA.—Java is lower, at 11s. 6d. per lb. on the spot for good quality.

CASSIA.—On a Hong-Kong analysis the oil is still available at 5s. 3d. per lb. c.i.f., with the spot value of adulterated oil at 6s. 3d. to 6s. 9d., according to the amount of alcohol present. Forward offers on a guarantee of purity have now been made and business is reported to have been done at 6s. 3d. c.i.f. Supplies of genuine on the spot are becoming very rare, and 7s. to 7s. 3d. per lb. is asked where available.

CEDARLEAF is scarce and quoted at 5s. 3d. per lb. c.i.f. and about 6s. 3d. on the spot, in cases.

CEDARWOOD is unchanged at 1s. 1d. per lb. c.i.f. and 1s. 2d. spot, in drums. In cases, 1s. 3½d. per lb. is asked on the spot.

CITRONELLA.—Ceylon on the spot is 2s. 2d. per lb., and the forward position remains unaltered, with offers difficult to obtain. Java is firm at 2s. 1d., either spot or c.i.f., but odd parcels may be had at less on the spot.

CLOVE continues steady at the recently advanced figure of 5s. 6d. to 5s. 9d. per lb., according to quantity, for English distilled.

EUCALYPTUS.—The 70 to 75 per cent. is about 1s. 10d. per lb. spot, and there is a spot shortage of lower grades.

GERANIUM.—Bourbon is higher at 18s. 3d. to 18s. 9d. per lb. on the spot, with shipment prices ranging from 18s. to 19s. per lb. c.i.f. Algerian is quoted at 14s. 9d. f.o.b. and is about 15s. per lb. on the spot.

LAVERNE is unchanged at 15s. to 15s. 6d. per lb. on the spot for 38 to 40 per cent. l.a.

LEMON is dearer at 18s. to 18s. 6d. per lb. c.i.f., with spot values varying considerably, according to seller. Spot parcels are available at 11s. 6d. per lb.

MANDARIN is available at 33s. per lb. on the spot, although higher in many directions.

NEROLI.—The French crop of orange flowers is about 10 per cent. dearer than last year, and the percentage yield of oil is also below the average. Good quality petale is about 39s. to 40s. per oz. on the spot.

ORANGE.—West Indian is steady at 27s. 6d. to 28s. 6d. per lb., according to seller. The Sicilian sweet is a little easier at 32s. per lb. c.i.f. The spot demand has also eased off, although the prices available for some odd parcels appear to be an attractive proposition. Some holders are selling out, while others are expecting still higher prices.

PATCHOULI is steady at 25s. per lb. on the spot for Singapore.

**PEPPERMINT.**—American redistilled is steady at 16s. per lb. on the spot and 15s. 9d. c.i.f. The natural tin oil is 13s. to 13s. 9d. per lb. c.i.f., according to brand, and from 13s. 9d. to 14s. on the spot. Japanese dementhrolised is firm and in strong hands at 6s. 4½d. per lb. on the spot for Kobayashi and/or Suzuki.

**ROSEMARY** is unchanged at 2s. to 2s. 3d. per lb. on the spot for Spanish.

**ROSEWOOD (BOIS DE ROSE).**—Brazilian is firm at 7s. 3d. per lb. on the spot. Cayenne is also firm at 9s. 9d. to 10s. per lb. on the spot for genuine.

**STEARIN** is unchanged but firm at 18s. per lb. c.i.f. and 19s. on the spot.

**SPIKE.**—Spanish is unchanged at 3s. 3d. per lb. on the spot.

**VETIVERT** is on the easy side at 22s. 6d. per lb. on the spot for Bourbon.

**WORMSEED (CHENOPODIUM)** is slightly easier at 12s. 9d. to 13s. 3d. per lb. c.i.f., and 13s. 6d. to 14s. per lb. on the spot.

The following arrivals have taken place from the countries indicated during the period May 23 to June 5 (inclusive): Anise (Ch.) 50 cs., (Fr.) 31 cs.; bergamot (It.), 39 cs.; camphor (Jp.), 68 dm.; cassia (Ch.) 40 cs.; cedarleaf (U.S.), 2 dm.; cedarwood (U.S.), 7 dm.; cinnamon (Cey.), 16 cs.; citronella (Holl.) 2 dm., (Jv.) 13 dm.; clove (Madag.), 3 dm.; eucalyptus (Aust.), 1 dm.; geranium (Fr.) 1 dm., (Alg.) 3 dm.; lavender (Fr.) 4 dm. 4 cs., (Sp.) 1 dm.; lemon (It.), 184 cs.; lemongrass (Guat.), 2 dm.; lime (B.W.I.), 27 cs.; mandarin (Fr.), 1 cs.; orange (It.) 10 cs., (U.S.) 1 cs. 1 dm., (B.W.I.) 28 cs., (Alg.) 4 cs., (Sp.) 4 dm. 4 cs.; orris (Fr.) 3 cs.; palmarosa (U.S.), 1 cs.; peppermint (Jp.) 105 cs., (Fr.) 10 cs., (U.S.) 5 cs. 2 dm., (Ger.) 10 cs., (Can.) 1 cs.; pimento (Ger.), 2 cs.; pine (Fr.) 7 pkgs.; rosemary (Fr.), 1 cs.; sandalwood (Aust.), 30 cs.; thyme (Sp.), 1 cs.; spearmint (U.S.), 1 cs.; vetivert (Jv.), 1 cs.; undescribed (Fr.), 8 cs.

### Pharmaceutical Chemicals, etc.

THERE is keen competition in some lines, which is likely to affect prices before long. Tannic acid has advanced. Vanillin may harden on the clove oil position. Citric and tartaric acids remain quiet. British-made aspirin is dearer, and salicylic acid is much firmer. Business generally has been disappointing.

**ACETANILIDE** continues to be quoted at about 1s. 5½d. to 1s. 6d. per lb. for B.P. crystals and powder; market quiet.

**ADRENALIN** is rather higher at from 3s. 6d. to 3s. 9d. per gram for pure.

**AMIDOPYRIN** is unchanged, with dealers quoting spot at about 8s. per lb.

**ASPIRIN.**—Actual business may have been put through at the old rates of 2s. 5d. to 2s. 7d. per lb., as to grade and quantity, but subsequently British makers advanced the price to 2s. 7d. for one-ewt. lots, contracts being entered at slightly lower figures.

**BENZALDEHYDE** is quoted at 1s. 11d. per lb. for f.f.c., in carboys.

**BENZOIC ACID (B.P.)** is unchanged, with a satisfactory business: ex works, in quantities, at 2s. 0½d. to 2s. 1d. per lb.; small spot parcels, 2s. 2d. per lb.

**BENZONAPHTHOL** is offered rather cheaper at from 2s. 10d. to 3s. per lb. as to quantity.

**BROMIDES** are unchanged throughout, with business unimportant. Dealers: ammonium, 1s. 11½d.; potassium, B.P. crystals, 1s. 7½d.; granular, 1s. 7d. to 1s. 7½d.; sodium, B.P., 1s. 10½d. per lb. for quantities, in cases. British makers' list prices are unchanged: ammonium, from 2s.; potassium, from 1s. 8½d. to 1s. 9½d.; sodium, B.P., 1s. 11d. to 2s. per lb., in cwt. lots.

**Caffeine.**—Pure crystals are somewhat cheaper from dealers, offering at 6s. 6d. to 6s. 9d. per lb. as to quantity.

**CALCIUM LACTATE** is unchanged but steady at 1s. 1½d. to 1s. 2d. per lb., for fair quantities.

**CHLORAL HYDRATE.**—Business has been fairly good at unchanged rates: duty-paid crystals, 3s. 1d. to 3s. 2d. per lb.

**CITRIC ACID (B.P. crystals).**—The amount of business moving is still comparatively small. The market quotations for foreign are maintained, but it is difficult to do much business at these rates. Spot supplies are not great, and the forward position is holding up. Quoted from 1s. 10½d. to 1s. 11d. per lb., less 5 per cent. for quantities.

**CREOSOTE (B.P.)** continues quiet, with prices unchanged at 1s. 8d. to 1s. 8½d. per lb.

**CREOSOTE CARBONATE** is steady but in little call: quoted on spot at 5s. 10d. to 6s. per lb.

**EMETINE SALTS.**—Makers' prices are now as follows: pure alkaloid, 125s. per oz.; hydrochloride, 72s. 6d.; hydrobromide, 75s.; bismuth iodide, 40s. per oz.

**GUAIACOL CARBONATE** remains dull; spot is offered at about 4s. 8d. to 4s. 10d. per lb.

**HEXAMINE.**—Prices quoted continue very keen here for a rather limited business: small crystals, 1s. 1½d.; fine

powder, 2s. 1d.; free-running crystals, 2s. to 2s. 1d. per lb. for fair quantities.

**HYDROQUINONE** is steady with a fair demand: half-ton lots, 3s. 8d.; up to 4s. 9d. per lb. for 14-lb. parcels.

**LACTIC ACID (B.P.)** is unchanged on spot at 1s. 11d. to 2s. per lb.

**METHYL SALICYLATE (B.P.)** is steady as quoted at 1s. 4½d. to 1s. 4¾d. per lb., for large quantities; small spot parcels, 1s. 6d.

**METHYL SULPHONAL** is unchanged on a dull market at 8s. 9d. to 8s. 10d. per lb.

**PARALDEHYDE** is steady but quiet: quantities in carboys, 1s. 1d. to 1s. 2d.; small lots, in bottles, 1s. 3d. per lb.

**PARAFORMALDEHYDE** is offering in quantities, in kegs, at from 1s. 8d. per lb., for 100 per cent. powder; market quiet.

**PHENACETIN.**—Dealers' prices are steady at from 2s. 5d. to 2s. 7d. per lb.; business moderate.

**PHENAZONE** is unchanged, with business fair: quoted from 3s. 10d. to 4s. per lb.

**PHENOLPHTHALEIN** remains quiet but unaltered at 5s. 11d. to 6s. 1½d. per lb.

**POTASSIUM PERMANGANATE (B.P.)** is firm, although important business is lacking: quoted in quantities, in drums, from 5½d. per lb.; small parcels, 6d.

**RESORCIN** shows no change, with the spot price at 3s. to 3s. 2d. per lb.

**SALICYLIC ACID (B.P.).**—The market quotation has advanced with the bottom price for large quantities at 1s. 3d. per lb.; smaller lots according to scale up to about 1s. 6d. per lb.

**SALOL** is steady and unchanged: cwt. lots, 2s. 4½d.; 56 lbs., 2s. 5d.; small parcels, 2s. 6d. per lb.

**SODIUM BENZOATE (B.P.)** is fairly active at 1s. 7½d. to 1s. 8d. per lb. spot.

**SODIUM DIETHYBARBITURATE** continues dull, with the spot quotation at 7s. 10d. per lb.

**SODIUM SALICYLATE (B.P.)** is steady, although there is not much business moving: crystals, from 1s. 8d.; powder, from 1s. 6½d. to 1s. 7d. per lb. for large quantities, in cases.

**SULPHONAL** is quoted in some quarters at 6s. 6d., while other offers are close up to 6s. 9d. per lb.; market dull.

**TANNIC ACID.**—B.P. *leviss* is firmer, with cwt. lots at 3s. per lb.; small parcels, 3s. 3d. to 3s. 4d. per lb.

**TARTARIC ACID.**—B.P. crystals remain slow of sale on spot but the market quotation continues unchanged at about 1s. 4½d. to 1s. 4¾d. per lb., less 5 per cent. for foreign.

**TERPIN HYDRATE** is idle: dealers offer quantities to come forward at 1s. 5d. per lb.

**THYMOL** is unchanged, with synthetic fine white quoted on spot at 9s. 6d. per lb.

**VANILLIN** seems likely to harden from the present figures of 15s. to 15s. 6d. per lb. The recent advances in prices of clove oil seem likely to affect the position in due course.

### Industrial Chemicals, etc.

London, June 6.

QUIET markets are reported from most quarters, while the general tone continues steady. Cream of tartar is distinctly quiet and prices as quoted are difficult to obtain.

**ACETIC ACID** is still slow of sale and unchanged: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton ex store.

**ACETONE** is meeting with a very limited call with prices unchanged: B.G.S., £63 to £67 per ton, in drums, ex store.

**ALUM** is steady, with occasional business: lump, in casks, £8 5s. to £8 7s. 6d. per ton ex store; slightly cheaper forward.

**AMMONIA (ANHYDROUS)** continues active at keen prices, mostly for small lots: spot, 99.95 per cent., 9d. to 11d. per lb., in loaned cylinders, carriage paid; slightly less for contracts.

**AMMONIUM CHLORIDE**—Grey galvanising is steady but quiet; quoted from £21 10s. per ton, in casks, ex store; slightly less for contracts.

**AMMONIUM SULPHATE**.—Home trade June £10 13s. per ton delivered, for neutral in fine friable condition, basis 20.60 per cent. nitrogen delivered carriage paid in six-ton lots and upwards to buyers' nearest station. For export: for prompt shipment £9 17s. 6d. per ton packed in double bags and £9 7s. 6d. per ton in single bags f.o.b. U.K. ports, for neutral quality, on the basis of 20.60 per cent. nitrogen, no charge if over, *pro rata* allowance if under. A tare of 4 lb. per double bag is allowed.

**ARSENIC.**—There is a moderate demand for white Cornish and prices have been well maintained, ranging from £17 to £17 5s., according to quantity, delivered f.o.r. mines. Mexican high-grade is still offering at £17 5s. c.i.f. Liverpool. Official returns give the Canadian output for last year at 2,184 tons of white arsenic and 579 tons representing the contents of arsenical concentrates and residues shipped abroad. The corresponding returns for 1926 were 1,779 tons and 486 tons respectively.

**BARIUM CHLORIDE** is dull: 98 to 100 per cent. prime white crystals is quoted at about £7 12s. 6d. per ton, in casks, ex store; slightly cheaper forward.

**BLEACHING POWDER** is steady, with a fair business: contracts from £6 12s. 6d. per ton; one or two-ton lots, £7 per ton, carriage paid.

**COPPER SULPHATE**.—Business is not very active, but good quantities are still being exported in fulfilment of old contracts: terms f.o.b. for casks, less 5 per cent., are from £25 15s. to £26 15s., and the cost to home users, delivered, is £26 15s. to £27.

**CREAM OF TARTAR** is still meeting with a poor demand, with the quoted rates maintained at 97s. 6d. to 100s. per cwt., less 2½ per cent. for foreign powder, but some sellers are shading these figures.

**FORMALDEHYDE** is steady but on the quiet side: 40 per cent. by volume, £37 per ton, in casks, ex store; slightly less forward in quantities.

**FORMIC ACID** is unchanged, with routine business: 85 per cent. in carboys, £46 5s. to £46 12s. 6d. per ton, in carboys, ex store.

**ISOPROPYL ALCOHOL** has been active on small lines, with prices competitive: reliable make is from 10s. 9d. to 11s. 3d. per gallon, in drums.

**LEAD PRODUCTS**.—Lead acetate continues quiet but steady: brown, £39 10s.; white, £41 10s. per ton, in casks, ex store; red lead, imported, £30 per ton, c.i.f. London; white lead, imported and home makes, dry, £36 to £42; ground in oil, £44 to £52 per ton, carriage paid in U.K. Convention prices are unchanged.

**OXALIC ACID** is meeting with a little inquiry, with dealers' prices unchanged at £29 17s. 6d. to £30 per ton, ex wharf.

**POTASH CAUSTIC**.—There is no change in Convention prices: less than one ton, £36 15s.; one to five tons, £33 5s.; five to fifteen tons, £32 15s. per ton, in drums, ex store; 30s. per ton, less c.i.f. in all cases.

**POTASSIUM CARBONATE** is not meeting with much sale: 90 to 92 per cent., £25; 96 to 98 per cent., £26 per ton, in casks, ex store; slightly less for contracts.

**POTASSIUM CHLORATE** is steady for quantities at about 3d. per lb.; small spot parcels, 3½d. per lb., ex store.

**POTASSIUM PERMANGANATE** remains decidedly quiet, with commercial quality in two-cwt. drums offered at 5d. per lb., ex store.

**POTASSIUM PRUSSIATE** is maintained in price, with the demand slow: yellow, from 6½d. to 6¾d. per lb. for quantities; small parcels, 7d., ex store.

**SAL AMMONIAC** is moving in fair quantity, with prices steady: dog-tooth crystals, £29; medium, £28; fine white crystals, £18 12s. 6d. per ton, in casks, ex store; slightly cheaper for contracts.

**SODIUM ACETATE** is firm on a short spot market: fully £21 per ton, in casks, ex store.

**SODIUM CHLORATE** is steady as quoted for quantities at 2½d. per lb.; small spot parcels, 3½d. to 3¾d. per lb., ex store.

**SODIUM HYPOSULPHITE** shows no change, with a fair business: dealers quote pea crystals in one-cwt. kegs at £15 to £15 2s. 6d.; commercial, £9 10s. per ton, in casks, ex store. British makers' price for pea crystals to home consumers on contract, £15 per ton, carriage paid to buyer's station.

**SODIUM NITRATE** is dull and easy: 95 per cent., £10 12s. 6d.; 96 per cent. refined, about £11 per ton, f.o.r. docks, London.

**SODIUM NITRITE** is unchanged on a quiet market: 100 per cent. basis, £19 17s. 6d. per ton and 20s. 6d. per cwt., docks, London.

**SODIUM PRUSSIATE** is very steady, although quiet: quantities in casks at 4½d. to 4¾d. per lb.; small spot parcels, 5d. per lb., ex store.

**SODIUM SULPHIDE** is unchanged as quoted by dealers: 60 to 62 per cent. solid, £9 5s.; broken, £10 5s. per ton, in drums, ex wharf.

**SULPHUR**.—Market conditions were well maintained, with a steady demand either for crude or refined. American crude is £5 12s. 6d. to £5 17s. 6d., and Sicilian flowers are quoted £12 7s. 6d., refined ground £11, and roll £9 15s. per ton, all c.i.f. to arrive.

**COAL-TAR PRODUCTS, ETC.**.—This market continues dull, with no outstanding changes to report. ANILINE OIL continues steady, with quantities from 8d. per lb., packages extra, carriage paid. ANILINE SALT is quoted in quantities from 8d. per lb., packages extra, carriage paid. BETANAPHTHOL is unchanged, with the market fairly bright: quantities from 10d. per lb., carriage paid. CARBOLIC ACID crystals continue steady, with a fair demand from foreign and home consumers. The export price for large quantities, prompt and forward, to-day is about 6½d. per lb.; smaller quantities 7d. to 7½d. per lb. for 39° to 40° C. ice crystals. CRESYLIC ACID.—The market continues active, with a good demand for all grades. Supplies of refined and pure acid are scarce, but fair quantities of standard pale material are available at

2s. 8d. to 2s. 9d. per gallon, naked at works. CREOSOTE OIL is steady but rather quieter: ex works, 7½d.; f.o.b., 8½d. per gallon, in bulk quantities. NAPHTHALENE as quoted by importers is barely competitive: flakes and balls, £16 15s. per ton, in cases, ex wharf. METHYL ALCOHOL is steady and business is fairly good: spot, in small lots, about £45 per ton, in drums, ex store; cheaper for quantities to come forward. PYRIDINE remains idle: nominal at 4s. 6d. to 5s. 6d. per gallon, f.o.b. TOLUOL is steady: commercial 90's. 1s. 8d.; pure, from 1s. 10d. per gallon at works, in quantities. XYLOL remains slow of sale: commercial, 1s. 7d.; pure, about 1s. 10d. per gallon at works. PITCH remains idle, with the market quotation nominal at 60s. per ton, f.o.b. East Coast.

### Fixed Oils, etc.

CONDITIONS in this section have been quiet and there is not much change to record. Cotton oils are firm, while palm oils are dull and easier. American turpentine closed dearer. ACID OILS remain quiet with quoted prices unchanged: coconut and/or palm kernel, 39s.; groundnut, 32s.; soya, 28s. spot. CASTOR is quiet and just a little easier: pharmaceutical, 51s.; first pressings, 46s.; second pressings, 43s. per barrel in not less than one-ton lots; Italian water-white, in cases, is 68s. per cwt. ex wharf, London. COCONUT.—Business has been slow: deodorised, spot, 48s.; Ceylon, 42s. c.i.f.; Cochin, 53s. c.i.f. COTTON.—Prices are fully maintained and firm: deodorised, 44s. 6d.; common edible, 45s. 6d.; soap-making, 39s. 3d.; crude, 37s. spot. GROUND-NUT is quiet but unchanged: deodorised, spot, 47s. 6d.; crude Oriental, 42s. 6d. c.i.f. PALM KERNEL is steady but quiet: deodorised, 45s.; crude, 41s. spot. PALM has been quiet all the week and prices for most grades are a little easier, closing unsteady: Lagos, 34s. 6d.; softs, 34s.; mediums, 34s. 3d.; hards, 35s.; bleached, 37s. spot. RAPE is steady but dull: refined, 46s. 6d.; crude, 44s. 6d. spot. SOYA is dull and easier: deodorised, 41s.; crude, 36s. spot. LINSEED (raw, naked) is fairly steady but remains quiet, closing slightly easier on the week; spot, 30s. 6d.; June, 29s. 6d.; July-August, 29s. 6d.; September-December, 30s. 3d.; January-April, 31s.; boiled oil, spot, 34s. 6d. Hull: 29s. 6d. spot; June, 29s. 6d.; July-August, 29s. 9d.; September-December, 30s. 1½d. TURPENTINE.—American prices fluctuated somewhat, but latterly were easier, while current receipts are said to be fairly well taken up. Deliveries here were moderate just after the holidays, the returns for last week being 1,196 barrels, making a total of 46,463 barrels since January 1, against 60,647 barrels the corresponding figures for last year. Stocks were reduced 22,673 barrels, which, including the quantities afloat, makes the London visible supply 27,898 barrels. This compared with 20,426 barrels a year ago. The London spot price closed dearer on Wednesday evening at 40s. 3d. per cwt., an advance of 9d. per cwt.; July-December, 42s. 9d. RESIN.—Trading was limited and disappointing for the time of year, but prices were fairly steady, being as follows: American B to D 16s. 9d. to 17s., E 17s. 6d., F/G 17s. 10½d. to 18s., K/M 18s. 1½d., W/G 21s., and W.W. 22s., all c.i.f. to arrive. Terms ex wharf stand at 9d. per cwt. above these rates. WOOD.—Hankow is dearer on a slow market as quoted at 81s. on the spot. OLIVE.—French (B.P.) is offered at 6s. per gallon net, in barrels, ex wharf. Edible, 7s.; Italian edible, 8s. 3d. per gallon.

**LUBRICATING, MINERAL AND BURNING OILS, ETC.**.—There is little change to report. With the exception of benzol and solvent naphthas, business has been quiet. BENZOL keeps very steady, with business moving well: crude 65's, 11½d.; standard motor, 1s. 4d. to 1s. 4½d.; pure, from 1s. 9½d. to 1s. 10d. per gallon, ex work, in tank wagons.

### Chilian Iodine Industry

THE Association of Iodine Producers has been receiving some governmental attention lately (says the Chile correspondent of the London "Chamber of Commerce Journal"), the Minister for Finance having severely criticised the hitherto existing system and customs in marketing this product, denouncing the method not only as old-fashioned, but as unjust to the producers themselves, who, besides the consumers, are also sufferers owing to the antiquated means employed. A complete study has been made by the Minister of the iodine industry, and the Association informed of the results of such study in view of the fact that several of the existing contracts are now approaching termination. The Minister is of opinion that advantage should be taken of such expiration of contracts to introduce considerable and radical modifications. One of the most important modifications proposed is that of the extinction of the "foreign" intermediaries as far as possible, which, it is considered, would be of financial benefit to the producers and, more especially, to the national revenue. The expiring date of the contracts above referred to is June 30.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

### Downtrodden Chemists

SIR.—“Live and Let Live” gets at the cause as well as the cure of our troubles when he advises chemists to shake hands and to forget their petty differences. At one time, I was extremely enthusiastic about this idea, and did my best to help where I could to accomplish it; but I was so badly let down with agreements as to prices, hours, etc., that ultimately I gave it up in disgust and confined my energies to my own affairs. But what we could achieve if we were united is shown by other letters in the *C. & D.* Mr. Trammer refers to posters for a proprietary medicine which are offered to chemists free to stick in their windows; the publicity afforded by these windows, especially those in a main shopping thoroughfare, must be at least equal to that in an omnibus, and the manufacturers pay big prices for these advertising spaces and yet expect the same from the chemist for nothing. A really united trade would have regular rates for exhibiting posters or no space given. But a meaner idea of the chemist’s tameness that even this is held by some proprietors, who actually quote prices for their own advertising material for the chemist to buy and then display it free. Then “Live and Let Live” says that doctors charge big fees; they do, and they see that they get them. A customer complained bitterly to me recently that it cost her 7s. 6d. a week for the doctor, which she could ill afford; she received a 6-oz. sixth-part mixture which lasted two days, necessitating three visits a week, at 2s. 6d. each, and if she did not pay cash it was 6d. extra for booking. Her husband, as a panel patient, received a script for a 12-oz. mixture, for dispensing which the chemist receives 5d., subject—less than the doctor charges as a booking fee.—Yours truly,

COMPARATIVE (4/6).

### Expiry Dates on Packed Goods

SIR.—“G.M.” (*C. & D.*, June 2, p. 704) asks if any other chemists suffer from the bugbear of expiry dates on foods and other preparations. I think we all do to a greater or less extent. One can see readily that the manufacturers wish to protect themselves from the sale of very stale stock of goods which are to some extent perishable, but I think the dating business is considerably overdone, as many of the commodities are fit for use long after the date has expired. Particularly is this so in the case of photographic films; I have used for test purposes spools which have been a year or more over date, and still got good results from them. No matter how careful a stock-keeper one is, with all the different makes and sizes we have to stock to-day it is impossible to avoid being left with one or two packages, and with foods it costs 6d. to post only one tin back to the makers. When dealing direct and in the delivery area it is possible to hand the time-expired goods back to the carman; but when ordering through a wholesaler or obtaining goods by rail or carrier there seems no way of avoiding loss.

Faithfully yours,

ANTEDATUM (5/6).

### “Proper and Sufficient Treatment”

SIR.—I like the idea that proceedings should be instituted in the courts when Insurance Committees refuse payment of accounts for articles which the doctors who prescribed them thought necessary for the proper and sufficient treatment of their patients (*C. & D.*, May 19, p. 627). I must admit that I am not well versed in legal procedure, but the first thing which occurs to one is: who would be the proper person to sue in such a case? Would one take action against the Committee as a body, or the chairman, the clerk, or all three together? And would one sue in the county court as in the case of a civil debt? The question of what is proper and sufficient treatment is one on which we require a definite

decision, but I suppose we are not likely to get one; for if such an action for payment were instituted, it would be for a particular item, and the arguments would be with regard to that item in relation to the particular case, so that we should be no nearer the solution of the general question. Naturally, no doctor would admit that the medicines he had ordered were unnecessary. Most panel chemists could give instances in which the customer has a 12-oz. mixture one day and then presents a script for a different one the next, and, if asked about it, says the doctor has changed the medicine. If the first bottle was only in the nature of an experiment (which is the only way we can account for it), surely it would have been sufficient to order a few doses and not to risk wasting a week’s supply. And yet these are passed for payment without comment, while other items which are supplied in good faith are disallowed.

Yours truly,  
FIDES (30/5).

### Lavish Prescribing

SIR.—The following panel recipe was handed me to-day, and the patient was very surprised when I told her I had not enough of one ingredient by 1½ oz. She had to try it for a week:—

Sodii bicarb.	...	...	...	...	3xx.
Mag. carb.	...	...	...	...	3xx.
Bism. carb.	...	...	...	...	5LX.
M. Ft. pulv. 5j. mod. dict.	...	...	...	...	

Yours obediently,

ONE OF THE DOCKED (6/6).

### The Calcium Biphosphate Decision

SIR.—The decision in the biphosphate of calcium case is as astounding as it is amusing—or would be amusing were it not so serious in its import. The late Referee gave carefully considered decisions in which matters of principle were laid down for the guidance of future disputants, his judgments often running to several thousand words. In the present case, the Referee, after taking page after page of notes, found himself able, in half an hour, in consultation with his colleagues, to give a bald decision without one word of explanation of his reasons. Nor do we know whether the Tribunal was unanimous or not. But what does the decision really say? It says—and this is all it says—that any one of the following three bodies is a “fine chemical”:—

(1) A mixture of pure biphosphate of calcium with 10 per cent. of dibasic phosphate of calcium.

(2) A mixture of 60 per cent. of biphosphate of calcium with 40 per cent. of dibasic phosphate of calcium.

(3) A mixture of either of the above, with 10 per cent. of calcium sulphate.

It may be true that for protectionist reasons these bodies have now to be called “fine chemicals,” but it is insulting the intelligence of the average chemist to ask him to say they are fine chemicals! What fine chemicals are they? Can they be given a name? What *ratio decidendi* governed the decision? Is it not the fact that from now onwards the manufacturers of England’s staple heavy chemicals intend to go to this Tribunal and ask them to say that these chemicals are “fine chemicals”? We think that this is so. It is time the Board of Trade dealt with this matter very seriously. In the case just decided, their counsel, for reasons best known to himself, did not even make a concluding address to the Tribunal. The Board must realise that unless they seriously tackle the problem—we should think it best that they should act with the opponents instead of sitting on the fence—their schedule is going to be reduced to a farce, and all the heavy chemicals of this country forced into it, as they may be on this decision, in which every carefully considered proposition of previous decisions come to by a young and very able Referee have been thrown to the winds. The value of Departmental legislation could hardly have been better exemplified than by this extraordinary decision. Incidentally it might be asked the Tribunal, “What is baking powder quality?” Apparently a mixture of 50 per cent. of each phosphate is a fine chemical, but which is it—is it “fine chemical acid phosphate” or is it “fine

chemical dibasic phosphate?" The present decision leads one nowhere except to doubt, contradiction, or absurdity!—Yours faithfully,

ARGUMENTUM ADJUDICUM.

### Co-operative Societies

SIR.—Both your correspondents, Mr. E. Skues and "B.L.U.N.T. John," have, by their letters, proved themselves worthy of holding important positions in any co-operative society's publicity department. Unintentionally, they have held out to all *C. & D.* readers an excellent advertisement in favour of co-operation. The former states that a shareholder "in, say, the Austin Motor Co. will not find it any easier to obtain an allowance off the price of an Austin car, but he will receive such dividend as is due to him whether he buys a car or not." That is obvious. Had the Austin Motor Co. been a co-operative institution, the shareholder would be more fortunate and get a dividend on his shares *plus* a dividend on his purchases. Your other correspondent says the same thing. "Shareholders in railway companies, gas companies, etc., do not get interest dividend on their shares and a 'divi' on their 'purchases.'" Of course they do not. Does anybody honestly believe that private enterprise concerns and the so-called combines are run for the benefit of the public? Co-operative societies by their system of mutual trading have proved themselves a blessing to thousands of families, and have demonstrated to the public how to make the most out of their hard-earned wages.—Yours faithfully,

ALFRED SIMONS, M.P.S.

Altrincham.

*Mr. E. Skues*, London, S.W.17, points out that the quantity of Andrew's Liver Salt in his letter appearing in our issue of June 2 (p. 704) should have been a 1s. 4d. tin, not as printed.

### Subscriber's Symposium

For interchange of opinion among "*C. & D.*" readers and brief notes on business and practical topics.

#### Appreciations

I find many papers and articles of extreme interest to those of us engaged in biological studies in THE CHEMIST AND DRUGGIST, and it is a pleasure to acknowledge the help which we have obtained from reading this publication—*S. D. W. (U.S.A.)*.

#### Reagent Bottles

Ordinary reagent bottles are unsuitable for such solutions as those of ammonium phosphate, ammonium carbonate, and the hydroxides of sodium and potassium, unless they are not to remain in the bottles for any length of time. Iridescent scales of silica appear, which on agitation pervade the liquid, to subside again when at rest. If these solutions are used for quantitative work, there is danger of error.—*Abel Scholar.*

#### Warning

At least three attempts have recently been made to obtain goods by means of false order forms bearing the name "B. W. Brooke," with the address of Mr. R. Woolby Brooke, dispensing chemist, 19 Gloucester Road, S.W.7. One firm became suspicious and sought confirmation of the order over the telephone. Another firm received a telephone call asking for a large consignment of goods to be in readiness. In this case a cheque was given in settlement which was found to be worthless. The third case was planned in the same way as the second, but the goods were not called for.

#### Packed Goods

Mr. J. C. Shenstone, writing about the use of herbal remedies (*C. & D.*, January 14, p. 56), says that in domestic medicine their place has been usurped by proprietary or secret preparations, tablets of synthetic chemicals, proprietary salines, etc. This is notably the case in the South of England and in the big urban centres; in the North, and certainly on the Continent, the middle and lower classes still buy or collect their herbs and make their own infusions and decoctions for

household use. I think that in the South of England this disuse of herbs is only part of the gradual change which has gone on whereby nowadays scarcely anything is made in the home. And we are entering into the next stage, in which this process is being carried a step further and all commodities are turned out of the factory ready packed to hand to the customer.—*Homemade* (23/1).

### Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*Canine* (22/5).—DRESSING FOR LICE ON DOGS.—This is an inelegant mixture of an oil and substratum. The chief components appear to be a thickish oil, probably raw linseed oil, a little cresol and some soap, including a small amount of water.

*M. S. E.* (19/85).—(1) WATER SOFTENER.—See *C. & D.*, June 2, p. 706. (2) BATH CRYSTALS.—See *C. & D.*, 1927, II, 539.

*Tara* (28/85).—CLOSET DEODORANT.—Zinc chloride is probably the preparation to which you refer, but the information is too meagre for us to be able to form an opinion.

*F. A. P.* (31/85).—DEODORANT SPRAY.—The following is the formula of a solution often used for spraying in cinematograph theatres, and it appears eminently suitable for the purpose you have in mind:—

Pine needle oil	...	...	...	2 oz.
Formalin	...	...	...	2 oz.
Acetone	...	...	...	6 oz.
Isopropyl alcohol	...	...	to	20 oz.

For use as a spray, mix one ounce with a pint of water.

*H. L. S.* (1/86).—DESULPHATING SOLUTION FOR ACCUMULATORS.—This appears to be simply a solution of ammonium tartrate (15 per cent.) with a slight excess of ammonia. It yields no ash, and no reactions for any of the usual acids.

### Legal Queries

*G. T. K.* (16/4) has held a wine "off" licence continuously since 1901, and has sold all kinds of wine under it. Recently he received a letter from the clerk to the justices informing him that he is entitled to sell only medicated wines under the licence, as it was granted originally many years before 1901, subject to a condition that only such wines should be sold under it. "G. T. K." asks what is his position. [We think the clerk is wrong, and his letter can either be disregarded or replied to by reminding him that the licence is one which was in force and held by "G. T. K." on June 25, 1902, and renewed to him from time to time since. A condition of this kind attached to a wine "off" licence is not legally binding, and in the case of an old "off" licence such as this, the justices cannot refuse to renew it except for one of the statutory reasons, which are, shortly, that the applicant is not of good character or has been adjudged disqualified to hold a licence, or has been guilty of some misconduct in the management of the business, or that either the applicant or the house is not duly qualified as required by law.]

### Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," June 15, 1878

#### The Moon and Medicine

The following extraordinary epistle was addressed a few days since by a parent at Rotherham to the mistress of one of the Board Schools in that town: "Dear Sir,—Myra and Delia are unable to attend school, as they have some powders to take at full of the moon, and have to be in bed at two o'clock." The school attendance officer visited the house, and found the children in bed at the time indicated.



[Commenced C. & D., July 5, 1924]

**Palm Kernels and Oils (continued)**

UNITED STATES.—The following figures show the imports of palm and palm-nut kernels, palm oil and palm-kernel oil into the United States during the past ten years:—

<i>Palm and Palm nut kernels</i>	
Year	lb.
1918 ..	338,778
1919 ..	19,590,500
1920 ..	6,758,000
1921 ..	4,545,000
1922 ..	302,776
Year	\$
1918 ..	338,778
1919 ..	339,700
1920 ..	421,000
1921 ..	217,000
1922 ..	20,000

<i>Palm oil</i> (from 1913 to 1927 inclusive)	
Year	lb.
1913 ..	48,443,000
1914 ..	61,753,000
1915 ..	31,482,000
1916 ..	40,621,000
1917 ..	36,074,000
1918 ..	27,409,000
1919 ..	19,280,000
1920 ..	50,165,000
Year	\$
1913 ..	3,369,000
1914 ..	4,118,000
1915 ..	2,025,000
1916 ..	2,919,000
1917 ..	3,316,000
1918 ..	2,528,000
1919 ..	1,651,230
1920 ..	6,529,000

<i>Palm kernel oil</i> (from 1913 to 1927 inclusive)	
Year	lb.
1913 ..	23,570,000
1914 ..	30,589,000
1915 ..	4,909,000
1916 ..	6,273,400
1917 ..	1,857,000
1918 ..	18,000
1919 ..	1,945,000
1920 ..	53,500
Year	\$
1913 ..	1,850,000
1914 ..	2,827,000
1915 ..	447,000
1916 ..	480,000
1917 ..	197,000
1918 ..	2,500
1919 ..	144,800
1920 ..	9,900
Year	\$
1913 ..	23,513,800
1914 ..	18,673,400
1915 ..	4,840,400
1921 ..	2,769,000
1922 ..	2,489,000
1923 ..	2,858,000
1924 ..	1,769,000
1925 ..	37,364,000
1926 ..	74,979,000
1927 ..	43,115,000
Kilos	\$
1913 ..	12,555,600
1914 ..	8,877,000
1915 ..	3,678,600
1921 ..	316,700
1922 ..	210,000
1923 ..	238,000
1924 ..	148,000
1925 ..	2,267,000
1926 ..	7,086,000
1927 ..	3,547,000

Palm oil and palm-kernel oil are not separately recorded in the United States export returns. Combined re-exports are: 1926, 2,701,000 lb. (\$255,000); 1927, 3,749,000 lb. (\$295,000).

The following figures show the imports and re-exports of palm oil into and from France, Germany and Italy during 1926 and 1927:—

<i>France</i>	
Imports	1926
	1927
Total .. .. .. ..	Kilos
French West Africa .. .. ..	23,513,800
Other countries .. .. ..	18,673,400
	Kilos
	4,840,400
Re-exports, total .. .. .. ..	2,415,700
	Kilos
	552,100

<i>Germany</i>	
Imports	1926
	1927
Total .. .. .. ..	Kilos
Netherlands .. .. .. ..	14,118,800
British West Africa .. .. .. ..	—
French West Africa .. .. .. ..	—
Belgian Congo .. .. .. ..	—
Liberia .. .. .. ..	—
Dutch Indies .. .. .. ..	—
	Kilos
	17,253,600
	295,600
	11,998,700
	1,043,800
	1,017,600
	636,800
	1,987,800
Re-exports, total .. .. .. ..	783,400
	Kilos
	527,500
Czecho-Slovakia .. .. .. ..	—
	311,000

<i>Italy</i>	
Imports	1926
	1927
Total .. .. .. ..	Kilos
Belgium .. .. .. ..	18,685,400
	Kilos
	15,274,600
France .. .. .. ..	1,212,400
	Kilos
	1,266,000
Germany .. .. .. ..	569,500
	Kilos
	81,900
Great Britain .. .. .. ..	23,500
	Kilos
	43,800
British India and Ceylon .. .. .. ..	1,328,400
	Kilos
	1,809,800
British possessions in North Africa .. .. .. ..	28,000
	Kilos
	53,700
French possessions in North Africa .. .. .. ..	12,295,900
	Kilos
	9,905,300
Belgian Congo .. .. .. ..	1,591,600
	Kilos
	1,441,600
Other countries .. .. .. ..	896,700
	Kilos
	592,400
	80,100
Re-exports, total .. .. .. ..	41,800
	Kilos
	44,800

**Paid-up Capital.**—The amount of the called-up capital actually “paid up” by the shareholders of a company. Included in paid-up capital is the amount of the shares issued as fully or partly paid for consideration other than cash. When shareholders fail to pay sums due on a call being made, the amount owing is known as calls in arrears or calls unpaid.

**Paints** are defined as coloured mixtures, usually liquids, with which suitable surfaces can be coated, the coating formed, which may be dull or shining, acting as a protective or preservative of the surface. Ordinary paint consists essentially of three parts—the pigment, the medium or vehicle, and the siccative or drier. *Pigment* is the term applied to those substances to which paints owe their colours: they are usually dry powders, diffusible but insoluble in the media. “Paint” is thus a combination of pigment and medium. Pigments are of mineral (usually metallic salts or oxides), vegetable or animal origin. The characters of pigments are binding power (i.e., covering and concealing the surface underneath), covering or spreading power, colouring power, oil-absorption power, durability and colour. The most important pigments are whites, yellows, reds, greens, blues, browns and blacks. *Media* or *Vehicles* are fluids or other materials with which pigments are mixed for the production of paints. For oil paints vegetable drying oils are employed, and for water-colour paints size, honey, glycerin and aqueous solution of gums. The oils chosen for their drying power are linseed oil (met with under the names raw, refined, artists' and boiled oil), poppy oil, walnut oil, hempseed oil and castor oil. Substitutes for linseed oil are mineral and resin oils, China wood oil (tung oil), Nigerseed oil, cottonseed oil, etc. Artists in oil use media containing a resinous varnish and turpentine in addition to a drying oil. “Megilp” is composed of linseed oil and mastic varnish. A good artists' medium can be prepared by gently warming a mixture of linseed or poppy oil with strong copal varnish and a trace of white beeswax. Vehicles for water-colour paints are isinglass, size, gum-water (arabic, tragacanth and senegal), honey, dextrin and glycerin. *Driers* or *Siccatives* employed are litharge, lead acetate, resinate of manganese, lead and cobalt, manganese dioxide, manganese borate, manganese and cobalt linoleates. “Terebines” or “liquid driers” are solutions of metallic organic compounds in linseed oil and turpentine. Patent driers are the above driers reduced with inert material, e.g., barytes or whiting. “Zumatic drier” consists of zinc oxide and manganese borate; “Guyemen's drier” consists of zinc oxide, manganese sulphate, zinc sulphate and manganese acetate. *Luminous paints* contain phosphorescent sulphur compounds of strontium, barium or calcium, sometimes associated with bismuth or uranium. The mixtures are calcined and combined with suitable pigments and media. Calcium tungstate is also used. *Fireproof paints* differ in composition. Asbestos is present in nearly all. Alkaline silicates, borax, fluorspar and glass are also used. A mixture of aluminium and sodium silicates is sold under the name of “fireproof cyanite.” *Waterproof paints* contain lime, flint, marble, sawdust, shellac, asphaltum or gutta percha. *Preservative paints* for iron, ships' bottoms, anti-fouling or anti-corrosive compositions are of two classes—those which are poisonous and kill adhering barnacles, and those which peel off in water and so cause removal of marine animals. Copper salts form compounds with the water and the paint peels off. Mercury, arsenic, copper and Japan lac are used in anti-fouling paints. *Washable paints* contain glue or casein. Miscibility is promoted with soap or a partially saponified drying oil. Ordinary distemper consists of a basis of whiting or China clay with a solution of size and disinfectant. *Enamels* are coloured paints yielding smooth and shining coatings. They consist of oil varnishes ground up with pigments and thinned with turpentine. *Gold paints* and *enamels* consist of bronze powders suspended in resinous varnishes or in a solution of celluloid in amyl acetate or acetone. Finely divided aluminium is the pigment in silver paint. *Common paints* consist of pigments ground with oil in a paint mill and mixed with driers. White

paints may consist of a mixture of white pigments, raw or boiled linseed oil, drier and volatile thinner. The addition of inert pigments other than in a proportion necessary to give "tooth" is looked upon as an adulteration. "Tinted" white pigments (i.e., pale tints) are prepared by the addition of tinting pigments ground in paste form to the ready mixed paint. Red and brown paints (e.g., Post Office red, signal red, cardinal red) are red lake pigments on a transparent base. Oxides of iron form the basis of paints for the protection of iron structures. Basic lead chromate, zinc chromate, red lead and zinc oxide render these paints rust-preventing. Yellow paints are prepared from lead chromates. Yellow ochres are permanent pigments and give a more subdued yellow than the lead chromates. Green paints in various shades are obtained by combinations of blue and yellow, the brighter shades by lead chromates and Prussian blues giving Brunswick greens, fast to light. Olive green and bronze green are prepared by substituting, in place of lead chromate, chromates of zinc or barium and bright yellow ochres. The colour of blue paints is generally obtained from ultramarine or Prussian blue. Black paints have as pigments varieties of carbon black obtained by burning organic substances in an insufficiency of oxygen. Indian ink consists of fine lamp black with gelatin and perfume.

**Pamphlets.**—A pamphlet or brochure differs from a booklet in that it is unbound, and consists merely of a few leaves stitched together; and from a leaflet in that it contains more than one printed page. Manufacturers, from time to time, issue pamphlets descriptive of their goods, and explaining their uses and advantages. It is generally to the chemist's advantage to co-operate with the supply houses in regard to the distribution of these pamphlets, by placing them on the counter or in some other easily reached position, so that customers may help themselves. In many instances the firms supplying the pamphlets will have the retailer's name printed or stamped on the cover or first inside front page, so that he may obtain more direct results from their distribution. There are times when it is possible for the retail chemist to use pamphlets himself, and to circularise local residents with them without loss of professional dignity. For example, after his shop has been refitted, he might invite them to come along and inspect his newly-decorated premises, and to make selections from his new stocks of perfumery and other lines. In this way, renovating activities can be made a fillip to business, for new customers may be tempted to visit the shop after the redecorating and refitting have been completed. Such a time is opportune, too, to have a photograph taken of the shop-front, with an attractive display of goods arranged in the windows, and to reproduce this in a small pamphlet for distribution to potential patrons. In the pamphlet might also be incorporated some notes on the history and activities of the establishment, particulars of the services offered, the extent and variety of the stock, and so on. The most satisfactory method of delivering pamphlets is through the post. They can then be sent so as to arrive on the morning or evening with the householder's letters, and are not dropped through the letter-box at any odd hour when they are unlikely to attract attention. A pamphlet sent under cover through the post has a more practical effect and gives a more dignified impression than one delivered by hand.

**Panama Bark.**—See Quillaia.

**Panax.**—The name panax, derived from the Greek word panakes, meaning "all heal," was applied, in the times of Pliny and Virgil, to some fragrant herb which has not yet been identified, but in modern times the name has been used as a botanical name for a genus of araliaceous plants to which the well-known Chinese drug, *Panax ginseng* (see "Ginseng," *C. & D.*, August 7, 1926, p. 289), belongs. In the form of opopanax, i.e., the juice of panax, the name is given to the Persian

gum-resin opopanax, which in the fresh state has an odour like celery, but the name has been erroneously applied in modern perfumery to the fragrant oil obtained from perfumed myrrh or "bissabol." There are a number of species of *Panax*, but the only two of interest to pharmacists are the Chinese ginseng (*Panax ginseng*, Nees) and the American ginseng (*Panax quinquefolium*, Linn.), both of which are now placed to the genus *Aralia*. The real Russian opopanax plant is as yet unknown to botanists. It is stated to have large leaves like angelica or lovage.

**Pancreatin** designates the preparation manufactured from the pancreas and having its enzyme action. It consists principally of a mixture of ferments, which are contained in the gland in an inactive form and only become activated on mixing with other digestive juices. The ferments present are: trypsin, amyllopsin, lipase or steapsin, and a milk-curdling enzyme. Trypsin converts albuminoids into peptones and amino-acid (tyrosin). It is not found as such in the pancreatic juice, but exists in an inactive form called trypsinogen. When the pancreatic juice comes into contact with the mucous membrane of the duodenum, the trypsinogen becomes converted into trypsin, owing to the action of another enzyme, enterokinase. Trypsinogen can also be converted into trypsin by calcium salts. Though the action of trypsin is similar to that of pepsin in the conversion of albumen, it acts in an alkaline medium. Predigestion by means of pepsin accelerates digestion with trypsin. Calcium chloride 0.5 per cent. increases its action. Amylopsin (pancreatic amylase), the action of which is similar to that of salivary amylase, attacks uncooked starch, with the production of dextrins and finally glucose, though the production of glucose is probably due to the presence of maltose. Addition of sodium chloride increases its action. Steapsin or lipase splits fats into glycerin and fatty acids, and its action is increased by bile. All these ferments have a maximum activity at 38° C., in weak alkaline solution (sodium bicarbonate 3 per cent.), which corresponds to a hydrogen ion concentration of  $2.10 \times 10^{-8}$ . By heating the solution to over 45° C., as well as by the action of acids or alkalis, the ferments are quickly destroyed. The presence of products of their action also influences their activity. Dried, the enzymes can bear heating up to 100° C. Solutions rapidly decompose, but may be preserved by the addition of chloroform or toluol. As human diet consists of fats, albuminoids and carbohydrates, the pancreatic juice possesses all the properties necessary to prepare foods for absorption. Pancreatin is manufactured usually from the pancreas of the pig (weight 100 gm.) or the ox (weight 250 gm). The glands are chopped, moistened with chloroform water and pressed. The expressed juice is precipitated with alcohol or acetone and centrifuged. The residue is pressed, washed with spirit, ether or acetone, and dried rapidly in an air current or *in vacuo* at 40° C. The yield is 5 to 6 per cent. of fresh gland. The product is a yellowish or cream-coloured powder, not completely soluble in water. The precipitation of the pancreatic juice by means of salicylic acid has been suggested. For the manufacture of technical preparations the picked or fresh juice is dried at 45° C. in a current of air or *in vacuo*. For tanning the juice is mixed with tannin-free wood meal, common salt or ammonium chloride. Pancreatin is used as an aid to digestion, dose 5 to 10 gr., and is official in the French Codex and U.S.A. Pharmacopoeia. It is used also in tanning for the curing of fine leather, as it dissolves connective tissue. Pancreatin has been used also in other technical processes, as in treatment of silk or cellulose and in the laundry.

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JUNE 9, 1928

THE CHEMIST AND DRUGGIST  
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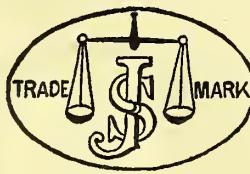
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ALUMINIUM MEASURES &amp; DIRECTION LEAFLETS SUPPLIED.

SPECIAL QUOTATIONS FOR CONTRACTS AND BULK SUPPLIES.  
IMMEDIATE DELIVERY OF ANY QUANTITY.

## JOHNSON & SONS

MANUFACTURING CHEMISTS, LTD.

HENDON - - LONDON, N.W.4

Manchester : 12 Queen Street, Deansgate.

## DUTCH DROPS

The Original HAARLEM OIL

Also in Capsule Form.

We are Sole Distributing Agents for the British Isles, British Colonies, Scandinavian Countries, Spain, and South America.  
BROOK, PARKER & CO., LTD., BRADFORD.



## CACHETS "FINOT"

(White or Coloured)

With inscriptions in any desired tint; also Plain or Embossed.  
"A distinction all their own"—C. & D.  
"Perfection of Cachets."—*Lancet*.

These Cachets are especially adapted for Headache, Neuralgia and other powders.  
COOPER SON & CO. LTD., 80 Gloucester Road, SOUTH KENSINGTON.  
In 17 Sizes to fit the various types of Cachet Machines.

Packed

## HOUSEHOLD AMMONIA

in various sizes of bottles to suit all classes of the trade

**FINEST VALUE EVER OFFERED**THORNTON & ROSS, LTD.  
MILNSBRIDGE, HUDDERSFIELD.

# HYPO

PLEASE SEND YOUR

## INQUIRIES & ORDERS

TO THE

## MANUFACTURERS

## JOHN RILEY & SONS

C.D. DEPT., LTD.

CHEMICAL AND COPPER WORKS,  
HAPTON, NR. BURNLEY.

# JAPANESE QUININE SALTS

B.P. 1914



Manufactured by

**HOSHI PHARMACEUTICAL CO., Ltd., TOKYO, JAPAN.**  
**STOCKS IN LONDON**

SOLE DISTRIBUTORS:

**RALPH L. FULLER & CO., LIMITED,**

Phone: Royal 1677-1678      21 Harp Lane, London, E.C.3.      Wires: "Ralfuller, London."

ANILINE DYES  
PHOTOGRAPHIC  
CHEMICALS  
LIQUORICE (BLOCK and  
STICKS)  
GENERAL CHEMICALS

We Specialise in Highest Quality.

Distributors in England for

**FRIES BROS.' renowned ESSENCES**  
(PEACH, APRICOT, Etc.)

Also for the HIGH CLASS

**Melba Toilet Preparations**

**A. CONNELL & CO., Melba House,  
WENLOCK ROAD, CITY ROAD, LONDON, N.1**  
Phone : Clerkenwell 7266. Tele. : "Nitrozone, Nordo, London."

## SOLAZZI Liquorice Juice

*The Chemist's Brand.*

Should any enquiries as to the composition of SOLAZZI be received from the Public, Chemists are requested to emphasise the fact that SOLAZZI is not included in the category of Secret Remedies, and that the following guarantee obtains with every parcel.

*Solazzi Juice is  
guaranteed to consist entirely  
of the condensed extract of  
finest Calabrian Liquorice Root,  
without any admixture whatever*



THE ORIGINAL MANUFACTURERS OF

# Salicylic Acid B.P. and Technical

Renowned for Standard Quality.

Bismuth Salts	Acetyl-Salicylic Acid	Pot. Sulphoguaiaconate
Silver Salts	Salol	Pot. Permanganate
Collargol	Salicylates	Sodium Bisulphite
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CHEMISCHE FABRIK VON HEYDEN, A. G. Radebeul-Dresden (Saxony)

Sole Agent for the U.K.:

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Telephone: Royal 7076.

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**Himrod's**

ASTHMA CURE

Established 50 years

IT is a powder to be burned and the fumes inhaled without any bad after-effects. Recommended by physicians throughout the world.

"I have tried every remedy ever invented, and 'Himrod's Cure' is the only one in which I have absolute confidence."—EMILY FAITHFUL.

"This is an excellent remedy for Asthma."—Sir MORELL MACKENZIE (in his Clinical Lecture at the London Hospital and Medical College).

"The only relief I could get; if I had only known of it before."—LORD BEACONSFIELD, in his dying moments.

**Himrod Manufacturing Company**

SOLE PROPRIETORS,  
270 WASHINGTON STREET,  
JERSEY CITY, N.J., U.S.A.

**VINT'S**  
**Menthols**

Feather Brand

**Satisfy Everybody**  
*They don't break*

Retail 6d, 1/- & 1/6  
Direct, or from any wholesaler

EVANS SONS LESCHER & WEBB LTD

Telephone : New Cross 0750.

Telegrams : "Triassic, Kent, London."

**J. M. SMITH & Co. (London) Ltd.**

Established 1860.

*Over 60 years' reputation as Manufacturers of Dependable Lines.*

Sanitary Fluids.

White D. A. Fluids.

Carbolic Acid.

Pinogen.

Lysol.

Disinfecting Powders.

Naphthaline.

Benzine.

Ammonia.

Embrocations, Etc., etc.

Dental Creams.

Tooth Powders.

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Toilet Powders.

Hydrogen Peroxide.

Camphorated Oil, B.P.

Eucalyptus Oil, B.P.

Olive Oil, B.P.

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Hair Toilet Lines, Etc., etc.

*EXPORT TRADE—Note Brands: "Triumph" and "J.M.S."*

28 Arthur Street, Old Kent Road, LONDON, S.E.15.

**J. M. S.****"CELEROIDS"**

The Wonderful Remedy for Rheumatism now being extensively Advertised.

ARTISTIC SHOWCARD WITH ORDERS OF 3 Doz.

**SULPHUR TABLETS AND LOZENGES**

Obtain our prices before placing your Contracts.

*ALL LINES AT COMPETITIVE RATES*

BUCKLEY - BOWKER TABLET CO. LTD.

29 Parkfield Street, LONDON, N.1

**PROFIT & REPUTATION**

Assured by avoiding imitations and selling

**"O. A. P.'S"**

(ORIGINAL ANTISEPTIC PASTILLES)

As prepared by WM. ALFRED JONES,  
late Joint Proprietor of the  
LIVERPOOL THROAT HOSPITAL*Samples and prices on application*Sole Agents, WM. ALFRED JONES LIMITED,  
West India House, Maryland Street, LIVERPOOL.**HAY FEVER CAN BE VERY SUCCESSFULLY  
POLLANTIN COMBATED WITH**

(A Serum discovered by Prof. Dunbar in 1903)

*For literature and prices apply to the distributing Agents***WILLOWS, FRANCIS, BUTLER & THOMPSON, LTD.**  
89a SHACKLEWELL LANE, LONDON, E.8

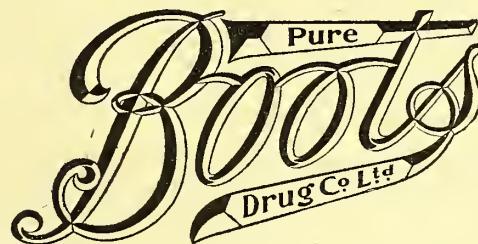
# Boots Products

ACRIFLAVINE (BOOTS)  
 BISMOSTAB (BOOTS)  
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 CHLOROFORM (BOOTS)  
 CHOLUMBRIN (BOOTS)  
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Address all enquiries to :

**WHOLESALE & EXPORT DEPT.**



Manufacturing Chemists and Makers of Fine Chemicals

**NOTTINGHAM : : ENGLAND**

Telephone: Nottingham 45501.      Telegrams: "Drug, Nottingham."

*REGD.*

# Genoxide

PEROXIDE  
OF  
HYDROGEN

B.P.

STABLE TO THE  
LAST DROP.

In 3 popular sizes,  
retailing at:

4 OZ. ..	1/-
8 OZ. ..	1/6
16 OZ. ..	2/6

P.A.T.A.

GEREROUS  
MARGIN OF  
PROFIT—  
MINIMUM  
50%

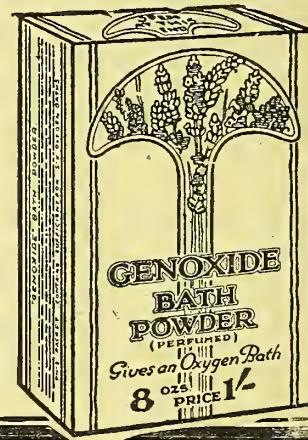
## GENOXIDE BATH POWDER

A genuine Oxygen bath powder. Subtly perfumed, fully effective and packed in attractive cartons. "Genoxide" Bath Powder sells at popular prices which will increase the demand for medicated Bath Powders

### RETAIL PRICES.

8 OZ. ..	1/-
16 OZ. ..	1/9

Terms to Trade.—  
7/- per dozen 8 oz.  
packets, 12/- per  
dozen 16 oz. packets.



GENOXIDE LTD. LUTON

CAN YOU MEET the demands  
of the Medical Profession and the  
Public for

## "ROBOVAL"

(Elixir Strontii Bromid. c Valerian Deodorat.)

An excellent Calmative and Nerve  
Sedative, free from any disagreeable  
taste or odour.

8 oz. BOTTLES, EACH 3/6

(Subject to the usual trade discount.)

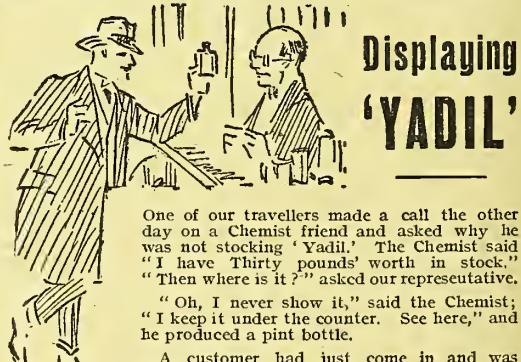
### A BRITISH PRODUCT

Manufactured and extensively advertised by—

**ROBERTS & CO.**

Pharmacists to H.M. the King

76 NEW BOND STREET, LONDON, W.1



One of our travellers made a call the other day on a Chemist friend and asked why he was not stocking 'Yadil.' The Chemist said "I have Thirty pounds' worth in stock." "Then where is it?" asked our representative.

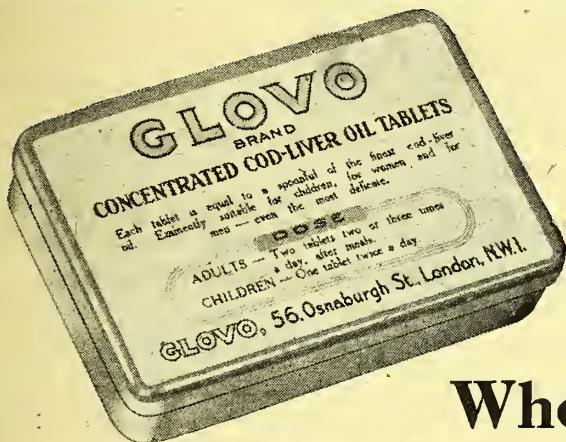
"Oh, I never show it," said the Chemist; "I keep it under the counter. See here," and he produced a pint bottle.

A customer had just come in and was awaiting attention. When he saw the 'Yadil' he leaned forward eagerly. "What," he said, "do you stock 'Yadil.' I have been sending away for my supply as I never saw any in your shop and thought you did not keep it. I will have that bottle and will tell my friends they can get their supplies here."

During the course of the Chemists' Exhibition we had many chats which showed that a proportion of our customer-friends had got into the habit during the last two or three years of stowing away their 'Yadil' stocks out of sight. Our representatives have made mention of the same fact. Show 'Yadil' and you will sell it! We are steadily inducing more of our old friends to give counter displays and window shows. The results are uniformly good. More than one Chemist has expressed himself as amazed at the quick response. We are only too pleased to supply special advertising material for display purposes on request.

### YADIL PRODUCTS (1925) LIMITED

Sicilian House, Sicilian Avenue,  
LONDON, W.C.1.



## When asked for cod-liver oil tablets?

When you are asked for Cod-Liver Oil Tablets, it is necessary that the tablet you supply is a genuine Cod-Liver Oil Tablet. It should contain Vitamins A and D extracted from cod-liver oil.

**Glovo Brand Concentrated Cod-Liver Oil Tablets  
are genuine Cod-Liver Oil Tablets.**

Retailers can offer these tablets with every confidence, because they are genuine, and can be sold without fear of prosecution.

# GLOVO

BRAND

## Concentrated Cod-liver Oil TABLETS

A combination of the unsaponifiable (vitamin) portion of cod-liver oil with calcium glycerophosphate

	TO THE PUBLIC.	TO YOU.
<b>TINS OF 30 TABLETS</b>	1/3	11/9 per doz.
<b>TINS OF 75 TABLETS</b>	3/-	27/- per doz.

*Special Co-operation Terms, showing a profit of 50% on cost or 33½% on turnover, on application to—*

**GLOVO, 23 Longford Street, LONDON, N.W.1**

*May we call your attention to :—*

# PETROLAX

(REGISTERED TRADE MARK)

THE IDEAL PARAFFIN AND AGAR-AGAR EMULSION  
AND

# PETROLAX COMPOUND

A COMBINATION OF PETROLAX AND PHENOLPHTHALEIN

Manufactured and Marketed by an ALL BRITISH Firm.

Consequently the margin of profit to the Retailer is good.

*It is not necessary to have money lying on your shelf in order to get the best terms. You are the best judge of your requirements, and can order accordingly.*

Note the Prices :—RETAIL 2/- (Nominal  $\frac{1}{2}$ lb.) 14/- doz.

”	3/6 (	”	1lb.)	24/-	”
”	6/- (	”	2lb.)	44/-	”

*Stocked by the leading Patent Houses, or direct from the SOLE MANUFACTURERS :—*

**C. R. HARKER, STAGG & MORGAN, LTD.**

Mile End, London, E.1

## For all Skin Troubles—

“FERRY” Antiseptic Ointment is of great germicidal strength, and is invaluable for the quick treatment of cuts, burns, scalds, and other every-day mishaps. It is recommended for the treatment of long-standing skin troubles, particularly Eczema, Psoriasis, Impetigo, Scabies and Ringworm. Skin eruptions, such as Boils, Pimples and Septic Sores, quickly disappear if treated with the Ointment. “Ferry” Antiseptic Ointment soothes insect bites and prevents blood poisoning. It is made of the purest materials, and is ABSOLUTELY SAFE AND NON-POISONOUS.

*Liberal Trade Discounts. Send to-day for particulars and prices.*  
**THE BRITON FERRY CHEMICAL & MANURE CO., LTD.**  
(Dept. U.4), Briton Ferry. (Established 1886.)



## ANTISEPTIC OINTMENT

# Petrolagar

YOU please the doctor and his patient who is your customer by always being in a position to supply ‘Petrolagar’ on demand. An imitation of this or any other worthy product will displease your customer, no matter how cheap the imitation is.

*‘Petrolagar’ is the trade mark distinguishing the fine emulsion of mineral oil and agar-agar issued in four varieties, Plain, with Phenolphthalein, Alkaline and Unsweetened, manufactured only by DESHELL LABORATORIES LTD., BRAYDON ROAD, LONDON, N.16.*

# COLLOSOL ZINC CREAM

(CROOKES)



This distinctive and extensively prescribed product not only possesses exceptional curative properties in actual skin troubles, but forms a very valuable and delightful toilet accessory.

Its unique value in SUNBURN, INSECT BITES, and the Various Minor SKIN AILMENTS, and for general use, make it an exceptional line for personal recommendation.

## THE CROOKES LABORATORIES

(British Colloids Limited)

22 CHENIES STREET, TOTTENHAM COURT ROAD, W.C.1

Telephones : Museum, 3663, 3697, 5757.

Telegrams : "Colossally, Westcent, London."

Applications INVITED from WHOLESALERS to act as SOLE TERRITORIAL AGENTS for

### BAU OLIVE OIL

which is guaranteed to be PURE VIRGIN QUALITY.

Write THE BAU AGENCY  
7 LANCASTER PLACE, STRAND, LONDON, W.C.2

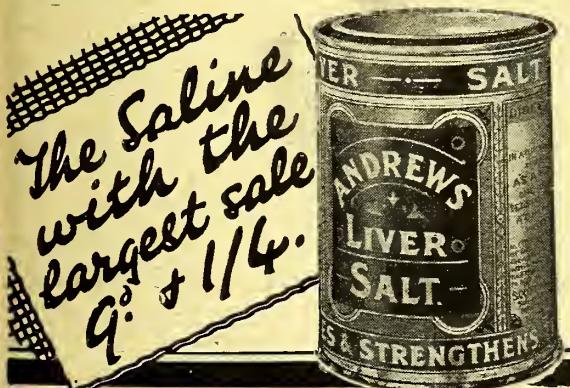
ALL CHEMISTS SHOULD STOCK

### ABDINE

THE GOLD MEDAL HEALTH DRINK.

Quick Seller. Big Profits. Over 50 years' Reputation.  
"Abdine" is the most popular Health Drink. Perfectly safe for all ages. Made from choicest fruits, it does not contain Epsom or Glauber Salts. Year after year the sales are steadily increasing.

DUNCAN McGlashan, LTD., ABDINE WORKS, WESTFIELD RD., EDINBURGH



## CAPULVÆ

or

### GELATINE CAPSULES FOR POWDERS

Filled or Empty.

#### SPECIALITIES :

Private Formulae, Prescriptions, and Gland Products.

John W. Mawson & Co., Ltd.  
West Norwood, London, S.E.27

Phone : Streatham 0718.

When ordering through Wholesalers specify "CAPULVÆ CAPSULES."

# Make Bigger Sales of Chloride of Lime This Summer!

THE approach of summer makes it very important to have good stocks of Chloride of Lime.

Be prepared for the hot weather that is ahead and send your order for supplies of Chloride of Lime to the nearest I.C.I. sales office.

## IMPERIAL CHEMICAL INDUSTRIES LIMITED

Head Office:—  
NOBEL HOUSE, LONDON, S.W.1

### Sales Offices at:—

BELFAST, BIRMINGHAM, BRISTOL,  
DUBLIN, GATESHEAD-ON-TYNE,  
LEEDS, LEICESTER, LIVERPOOL,  
LONDON, MANCHESTER.

### Agents for Scotland:—

ARTHUR & HINSHAW LIMITED,  
4 BLYTHSWOOD SQUARE,  
GLASGOW.

## Reduction in Price

# THE JAR OF **CALVERT'S** Carbolic Ointment

IS NOW REDUCED TO

Retail **2/3** Retail

(The prices in Tins, 1/3 & 2/3, remain unaltered)

COMPLETE PRICE LIST  
POST FREE ON APPLICATION

**F. C. CALVERT & Co.**  
MANCHESTER

Kaylene (Colloidal Kaolin) -	3/-
Kaylene Dulcis - - -	3/-
Kaylene Saline - - -	4/9
Kaylene Mint - - -	3/9
Kaylene Lax - - -	4/3
Kaylene-ol - - -	5/-
Kaylene-ol c Phenolphthalein	5/6

### COLONOL LIQUID PARAFFIN

20 oz. 4/-  
" " 40 oz. 7/-

and in  $\frac{1}{2}$ ,  $\frac{1}{4}$ , 1, and 2 Gallon Tins.

P.A.T.A. Special Terms for £5 Order.

Sole Agents for

"KAKRISPA" SWEDISH RYE BREADS

# KAYLENE LIMITED

73 JUDD STREET, KING'S CROSS, W.C.1

Tel., MUSEUM 6504.

# WINDOW STICKERS FOR Non Substituting CHEMISTS 'ASPRO'

Write for this

TO-DAY



We have been requested by chemists to supply anti-substitution advertising matter. We have, therefore, prepared this window sticker, size 23½ ins. x 7 ins. We suggest you write for one to-day.

It will be sent Post Free



ALSO PUT IN AN 'ASPRO'  
WINDOW DISPLAY—Connect up with 'ASPRO'  
continuous advertising and make £5 to £10 a week.

**ASPRO IS LISTED ON THE P.A.T.A.—  
and shows you a protected profit**

**LOOK WHAT  
CHEMISTS SAY**

Chemists are realising the fact that by devoting their window display to advertised goods they are sharing the goodwill of about £10,000,000 worth of advertising yearly. 'ASPRO' is perhaps the best demonstration of this principle that England has seen. 'ASPRO' spends £250,000 a year in advertising and is increasing its appropriation as sales grow.

The chemist who places the 'ASPRO' Window Display in his window gets the benefit of this advertising just the same as if his own name appeared in the advertisement. Demonstrated results are always better than statements, so we herewith give one from the many letters received from chemists who are featuring 'ASPRO' Window Displays. It tells its own story.

Messrs. Gollin & Co. Pty. Ltd.

Dear Sirs,—I have pleasure in enclosing for your inspection a photograph of 'ASPRO' display. This display has been entirely successful except winning a prize in the competition which is yet to be judged. Apart from that I am well pleased with the results. Taking into consideration that 'ASPRO' is extensively advertised and has become a household word with people, I think that when I state that the sales almost doubled themselves that this fact is worth recording. Over and over again they are being bought by those who have once taken them. This in short is eloquent testimony of their worth. That they do what you claim I have no doubt, and however critics may argue their composition 'ASPRO' remains pre-eminent, or, as I show in the window, "the best by every test." Faithfully yours

P.S.—In fairness to 'ASPRO' I should state that 'ASPRO' customers are frequently customers for other goods (verb. sap.).

**'ASPRO'**  
REG. TRADE MARK

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to medical science, and its claims are based on its superiority.

Agents: **GOLLIN & CO. PTY. LTD. ('ASPRO' DEPT.), SLOUGH, BUCKS.**

No proprietary right is claimed in the method of manufacture or the formula.

Phone: Slough 608.

# " LEMONADE POWDER "

(SO CALLED)

is now being offered at various prices.

## DO NOT BE MISLED

The difference in price between the finest and poorest qualities is so small that you cannot afford to

## RISK YOUR REPUTATION

by handling any other than the

## FINEST QUALITY

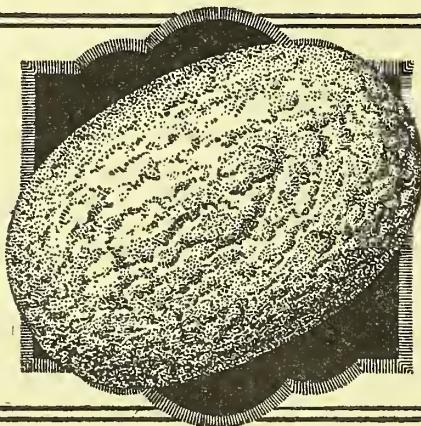
Before definitely placing your order ask for a sample and price of

## GALLOWAY'S LEMONADE POWDER

which is prepared under ideal conditions, and is the finest quality manufactured.

Also RASPBERRY POWDER, SHERBERT and ICE CREAM POWDER.

P. H. GALLOWAY, LTD. Qualified Chemists, LONDON, S.E.17



Two thirds  
actual size

## Bath Rusks

Unsolicited testimonials daily for Carr's famous Bath Rusks which are ideal for babies and young children. Scores of letters from grateful mothers. Recommended everywhere.

Made only by  
**CARR'S** of Carlisle  
*The Oldest House in the Trade*

ESTABLISHED 1793.

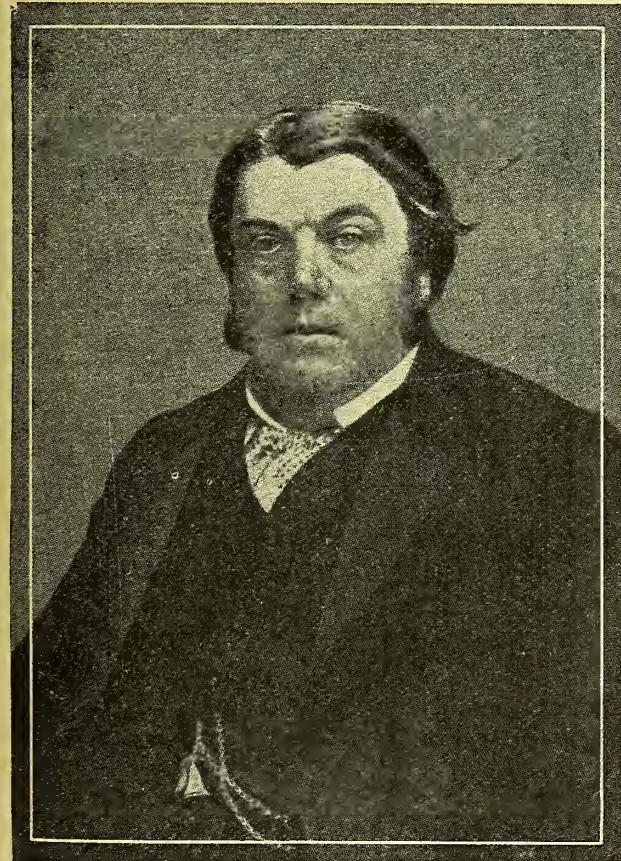
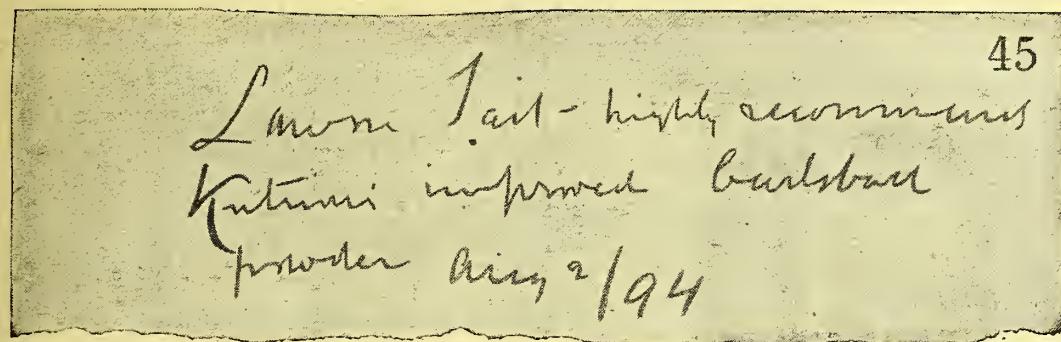
The Best and  
Safest Infants'  
Medicine of  
over 130 years'  
standing.

**ATKINSON & BARKER'S**  
**INFANTS' PRESERVATIVE**

Does not  
contain  
any  
Scheduled  
Poison.

ROBERT BARKER & SON, LTD., 13 WESLEY STREET, C. on M., MANCHESTER

# An Interesting "Scrap of Paper"



*Photograph of the late Dr. Lawson Tait, the great surgeon  
(Reproduced from THE LANCET, June 24, 1899.)*

THE above document discovered among the old papers of our Company is interesting evidence of the endorsement which Kutnow's Powder received from eminent members of the profession upwards of 30 years ago.

This noted saline owes its enduring success to its type of formula which is based on an analysis of the waters of the famous Sprudelspring at Carlsbad. It is indicated in liver and kidney ailments and uric acid troubles. Guaranteed free from sugar, Kutnow's may also be advantageously prescribed in cases of gout and diabetes.

Your patients generally will appreciate your recommendation of our preparation, as it is highly agreeable, unvarying in quality, and not excessively effervescent.

**Q** The proprietors will be pleased to send physician's sample of any or all the Kutnow preparations on receipt of business card.

# KUTNOW'S POWDER

Also Kutnow's Anti-Asthmatic Powder and Kutnow's Anti-Asthmatic Cigarettes for relieving asthma, bronchial catarrh, hay fever, influenza, cold in the head, and throat affections.

(Sole Proprietors: S. KUTNOW & CO., LTD.)

Trade Enquiries: CARLTON HILL, LEEDS.



**"JOHN BULL"**

# MALT EXTRACT

AND

# COD LIVER OIL

IS RICH IN VITAMINS A, B & D,  
and IS NOTED FOR ITS  
PALATABILITY.

It is made from 100% FINEST  
BARLEY MALT and the BEST  
LOFOTEN COD LIVER OIL.

*Wholesale and Export enquiries invited*

**PAINE & CO., LTD.**  
"JOHN BULL" Malt Extract Works  
ST. NEOTS - HUNTS

**MASON'S EXTRACT OF HERBS**  
**MASON'S WINE ESSENCES**  
(SUMMER FLAVOURS)

**CLARK'S LIVER SALT**

□ □ □

Please apply for Price Lists and particulars of

**WINDOW DISPLAY  
ALLOWANCES**

□ □ □

**NEWBALL & MASON, LTD.**  
NOTTINGHAM.

**LAKEROL**  
BRAND  
**BRONCHIAL PASTILLES**

SHOW NEVER LESS THAN 5d. PROFIT  
EVERY TIME YOU SELL A TIN.

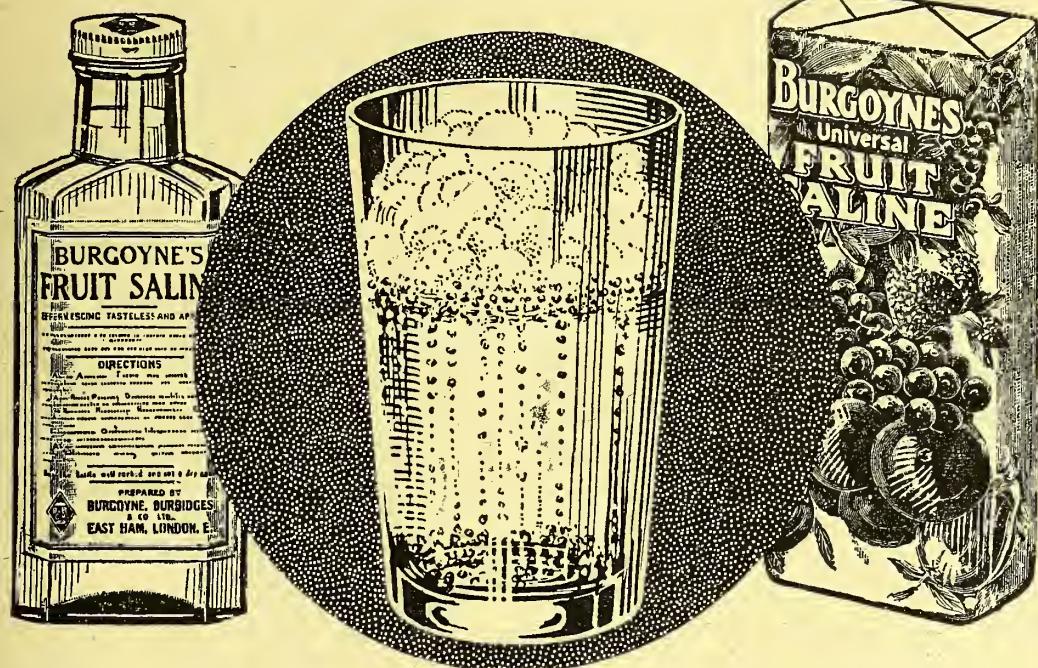
Sell to the Public at **1/3** Price to Chemist **10/-** Doz.

**PARCEL No. 1.**  
3 dozen, bonus 6 tins,  
Outlay .. £1 10s. 0d. Profit .. £1 2s. 0d.  
or 6d. per tin.

**PARCEL No. 2.**  
6 dozen, bonus 1 dozen  
 $2\frac{1}{2}\%$  trade discount.  
**OUTLAY,** £2 18s. 6d.  
**PROFIT,** £2 6s. 6d.  
or  $6\frac{1}{2}$ d. per tin. **PARCEL No. 3.**  
12 doz., bonus 2 dozen  
5% trade discount.  
**OUTLAY,** £5 14s. 0d.  
**PROFIT,** £4 16s. 0d.  
or 7d. per tin.

*Send Orders and Enquiries to*  
**PASTILLES LIMITED**

124 HIGH STREET, SHOREDITCH,  
LONDON, E.1.



# BURGOYNE'S

*Universal*

# FRUIT SALINE

This is a Fruit Saline of Superlative Quality, it enjoys a large and rapidly increasing sale, and, notwithstanding its low retail price, shows a handsome profit to the pharmacist.

*WRITE FOR A SAMPLE.*

---

MINIATURE  
BOTTLES  
retailing at  
6d.  
also supplied.

Retail Price.	Price to Pharmacist.	Profit on Outlay.
1/3	9/- per doz.	66 $\frac{2}{3}$ %
2/3	15/- per doz.	80%

---

SPECIAL  
BONUS  
TERMS  
for Window  
Displays.

**BURGOYNE, BURBIDGES & Co. Ltd., East Ham, LONDON, E.6**



Here's  
the  
perfect  
Crêpe  
Bandage

## NORVIC

### BLUE CARTON CRÈPE BANDAGE

It will pay you to make a special display of NORVIC BLUE CARTON CRÈPE BANDAGES. They are quick selling with generous profits and at protected prices. Attractive showcards on request.

	2"	2½"	3"	3½"	4"
Cost ..	12/-	15/3	18/3	21/3	24/3
Sell for ..	1/6	1/11	2/3	2/8	3/-

Discount for quantities : 3 dozen 2½% ; 6 dozen 5%.

Stocked by all the leading wholesalers

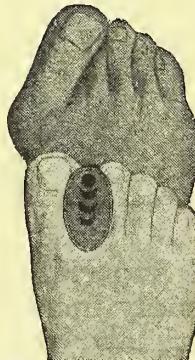
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Sublimate		20/3	11/6
Carbolic		6/4	
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	Minimum Public Prices Each	Minimum Trade Prices Per Doz.	
6-yd. 3-yd. 1-yd.	6-yd. 3-yd. 1-yd.		
Plain Absorbent	2/—	1/2	-8
Double Cyanide	2/6	1.5	-9
Picric	3/—	1/8	-10
Iodoform		27/—	15/-
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2 in. wide	1/3 each	11/3 doz.
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6 "	2/3 ..	20/3 ..
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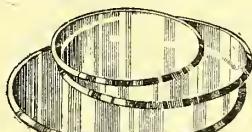
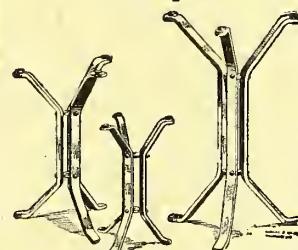
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Very artistic. Rubber buffers fitted top and bottom.

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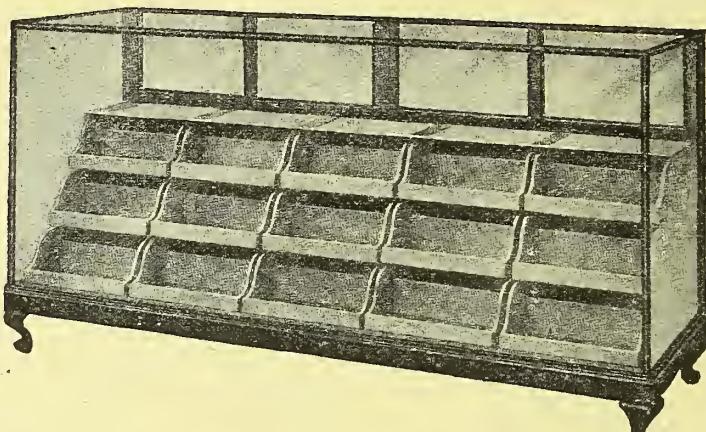
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All made in finest MAHOGANY, with Best BRITISH PLATE GLASS

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LENGTHS:

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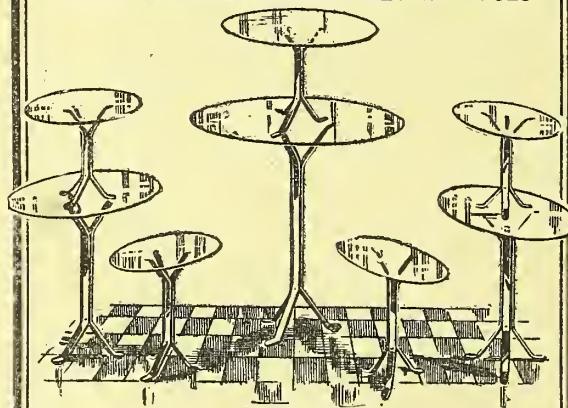
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5 Steel Tripods 9" high.      2 Steel Tripods 12" high.  
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Edges, Size 12" x 9"  
3 Ditto                            ditto                            ditto  
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**£2/10/O THE SET.**

Ref. No. M 629, an exactly similar set, but with  
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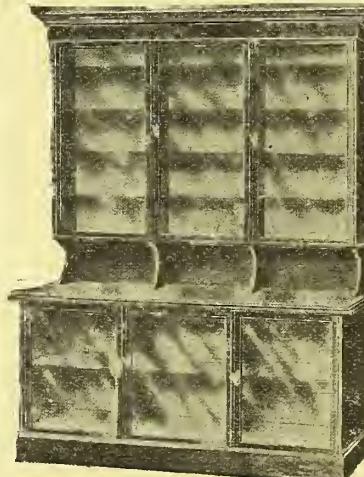
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4 ft.	14 10
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8 ft.	27 10

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A large quantity of New and Secondhand Show Cases,  
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who has a fully-equipped studio where experts in label-design are employed for the benefit of customers and prospective customers;

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who can give good advice on all questions relating to the packing of any and every class of goods;

who can give this Service at a reasonable price.

If you want help on your packing problems write to the Service boxmakers who know their business, and whose address is given below.

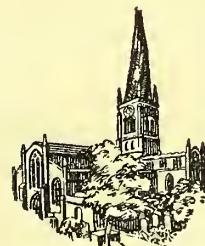


ROBINSON & SONS, Ltd.,  
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## Robinson & Sons, Ltd.

Manufacturers of Round, Oval, Square,  
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## Chesterfield & London



ROBINSON & SONS, Ltd.,  
168, Old Street,  
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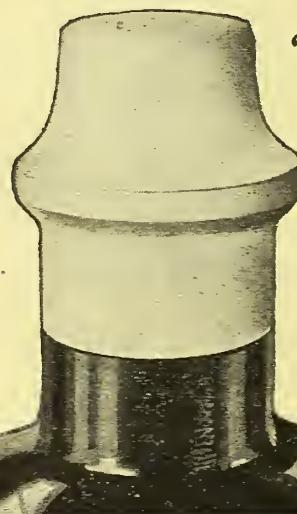
# If it's a bottle, it will look better with a "VISKAP"

Briefly, these are the reasons why the "VISKAP" is the Best Cap :

1. The "Viskap" imparts the finest possible appearance and finish to any type of bottle, and assumes the shape of any particular type of cork, stopper or sprinkler.
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Make your bottles look better with the British

## VISKAP SELF-FIXING HERMETIC SEALING BOTTLE CAPS



"Cap the lot."

The "Viskap" is the only British-made viscose cap. It is British from beginning to end, owned and made in England by an entirely British Company.

Write for descriptive leaflet to:—

THE VISCOSE  
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Registered Trade



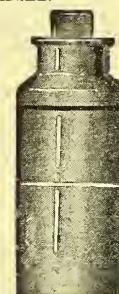
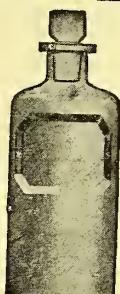
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Hand-turned Shop Rounds.



Recessed Shop Rounds.



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of the finest finish. Perfect Stoppering. Made in glass free from arsenic and lead; this feature is of vital importance in the case of Shop Bottles.



R.C. Flat.



B.C. Flat.



B.C. Square.



R.C. Square.

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accurate in Capacity,  
free from arsenic and  
lead, and handsome  
in appearance. The  
aristocrats of bottles.



Oval.



Oval Fronted Flat.



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Darkening Bay Rum  
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**12/-**  
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**ARTHUR H COX & CO LTD**  
Manufacturing Chemists  
BRIGHTON ENGLAND

# THE CHEMIST AND DRUGGIST



## SUPPLEMENT

42 CANNON ST.  
LONDON E.C.4

JUNE 9, 1928.

This Supplement is inserted in every copy of *The Chemist & Druggist*.

## CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

Telephone No.: CITY 2283.  
May be consulted at their Offices on matters of Sale, Purchase and Valuation.

LONDON, N.W.—Family Retail and Dispensing Business, Kodak Agency, etc.; returns £40 weekly; audited accounts; scope for considerable extension; very good living accommodation; garages; rent £70; held on lease. Further details on application.

LONDON, W.—General Retail Business, with Kodak Agency; returns £40 weekly under management; handsome modern double-fronted shop, very well stocked; flat over shop; bathroom; lease 18½ years to run. Further details on application.

LONDON, S.W.—Old-established Retail and Dispensing Business; returns average £2,000 per annum; the premises may be purchased or a lease will be granted; terms, valuation of stock and fixtures, and a sum for goodwill to be agreed.

LONDON, N.—General Retail and Dispensing Business, scope for increase by the addition of N.H.I. and Photographic; returns, present rate, £18 weekly; double-fronted shop, fairly fitted and stocked; small living accommodation; £55; 14 years lease; open to offers.

LONDON, S.E. (Main Road).—General Retail and Dispensing Business; established many years; returns about £3,000 per annum; rent £70; held on lease; terms, valuation of stock and fixtures, and a sum for goodwill to be agreed.

CHELSEA.—Family Retail and Dispensing Business, with N.H.I.; returns approach £1,600 at good prices; rent £80; held on lease; good house, with garden and side entrance; £1,200.

ESSEX (Suburban).—Newly-established Business; returns at £20 weekly, plus N.H.I. between £3 and £4 weekly; double-fronted corner premises, very well fitted in mahogany; up-pharmacy; no immediate opposition; price £350; recent cause of sale.

SOUTH COAST.—General Retail and Dispensing Business, main road of well-known town; returns last week exceeded

£40; handsomely-fitted shop, well stocked; held on lease; flats sublet at profit rental; terms, valuation of stock and fixtures and sum for goodwill to be agreed.

SOUTH-WEST OF ENGLAND.—Very old-established General Retail and Dispensing Business, with Optical and N.H.I.; returns over £2,000 per annum; net profit, £800; accountant's figures; vendor owns the property, which he would sell or lease; illness cause of sale. Further details on application.

SUSSEX (Healthy Locality).—General Retail and Dispensing Business, with Photographic; returns, present rate, £50 weekly; scope for increase; stock and fixtures estimated at £1,750; good living accommodation; garden; rent £125 per annum; long lease; price £2,500.

LINCS.—General Retail and Dispensing Business, with small Photography; returns last year £2,061; net profit £600; single-fronted shop, fitted in mahogany and well stocked; estimated value of stock and fixtures £1,150; large house and long garden; rent £104; 21 years lease; price £1,500.

BOURNEMOUTH.—Good-class Family Retail and Dispensing Business; progressive turnover, last year being £1,900; net profit £467; double-fronted shop, fitted in oak; well stocked; convenient residence; small garden; no near opposition; price of business £1,200, or near offer; property must also be purchased. Also Branch for disposal.

PLYMOUTH.—General Retail Business, with Kodak Agency; returns last year £1,500; net profit £320; chartered accountant's figures; large double-fronted shop; 18½ years lease; rapidly growing district; price £850, or £150 for the lease and goodwill, plus valuation of stock and fixtures; vendor is desirous of effecting an early sale.

SUSSEX.—General Retail and Dispensing Business, with Kodak Agency; returns £1,450; net profit £360; audited accounts; scope for increase in Agricultural; double-fronted shop; house and small garden; moderate rent. Further details on application.

Mrs. O. & Co. desire to emphasize the necessity of periodical Statement of Account by which means Profit, the Value of Business, &c., can be known. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and usually becomes confusion and loss.

## Valuations for Stocktaking

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such service.

## ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

### SALE BY AUCTION.

Williams. By Order of the Trustee. Removed from Chelsea and elsewhere for convenience of sale.  
5 LITTLE BRITAIN (close to G.P.O.), LONDON, E.C. almost new CHEMISTS' SHOP FIXTURES and SHOWSES, including Drug Runs of handsome design in both oak and mahogany, Wall Showcases with nests of drawers underneath; fronted Counters, bow-fronted Counter Cases, Silent Sales, Dispensing Screens, Mirrors, Cash Desks and Tills, Glass Shelves, etc.

B. NORMAN & SON

will Sell by Auction at their Sale Rooms as above,  
Wednesday Next, at 12 o'clock.  
n View Day prior. Catalogues on application.

J. L. Henshaw, in Bankruptcy.

28 HIGH STREET, DONCASTER.

H. CROUCH & SON are instructed by the Trustee (Parkin S. Booth, Esq., Liverpool) to Sell by Auction, on Thursday, June 21, the Valuable FIXTURES, FITTINGS and UTENSILS of a Chemist's Shop and Ladies' Hairdressing Saloon, including Permanent Waving Machines, Electric Brushing and Drying chine, Inlaid Mahogany and Oak Furnishings, valuable hogany Shop Fittings, Opticians' Requisites and Miscellaneous Effects.

catalogues from the Auctioneers, 6 Hallgate, Doncaster. The Stock-in-Trade will be Sold by Auction at the Hallgate Auction Rooms, Doncaster, on Tuesday and Wednesday, June 19 & 20 (the Dispensing Drugs and Chemicals on Wednesday, June 20) at 2 p.m. The Poisons are for Sale by Tender. Particulars from the Auctioneers.

### FINANCIAL.

SMALL Company, manufacturing Toilets and Packed Goods, requires additional working capital; Sales Director wanted with £300 or more to take active interest; would amalgamate with existing business or consider any proposition to forge ahead. All communications treated in strictest confidence. Reply to 126/40, Office of this Paper.

UNQUALIFIED Chemist wishes to invest up to £600 in Pharmacy or Drug Store; must be sound business; references exchanged. Webb, 93 Chichele Road, Cricklewood, N.W.2.

### APPOINTMENTS.

BIRMINGHAM CENTRAL TECHNICAL COLLEGE. APPLICATIONS are invited for the post of Lecturer and Demonstrator in the Pharmacy Department. The position is a whole-time appointment, commencing on September 1 next. Candidates must possess the Pharmaceutical Chemists' Qualification or a University Degree in Pharmacy. Salary in accordance with the Burnham Scale. Full particulars and form of application may be obtained from the Principal, Birmingham Central Technical College, Suffolk Street, Birmingham, to whom applications should be sent in on or before June 30, 1928.

P. D. INNES,  
Chief Education Officer.

### APPRENTICE WANTED.

A GOOD opportunity occurs in a West-End Pharmacy for well-educated youth as Apprentice. Rowse's Pharmacy, 88 Edgware Road, W.2.

## The Association of Manfg. Chemists, Ltd.

### Business Agency, Transfer and Valuation Department

**Head Offices**—Kimberley House, Holborn Viaduct, London, E.C.1 (and at 2 Bixteth Street, Liverpool).

**PARKIN S. BOOTH**, Accountant and Valuer. Phone: City 1261-2-3  
BUSINESSES FOR DISPOSAL

1.—**BLACKPOOL**.—Recently established Chemist's Business, on lease 15 years, at rental of £52 for first 3 years and £78 for remainder; returns £42 per week; stock approximately £400. Further particulars on application. (161)

2.—**STAINES**.—Recently established Drug Stores (good opening for qualified man), in main thoroughfare; 20 years' lease at £200 per annum; returns as drug store average £30 per week; excellent living accommodation; must be disposed of quickly. Further particulars on application. (158)

3.—**BRIGHTON**.—Retail Dispensing Business; premises consist of single-fronted shop; 15 ft. frontage, with dispensary and large basement; held on lease 17 years at £52 p.a. inclusive; returns average £20 p.w.; can be increased. Full particulars on application. (147)

4.—**LONDON, S.W.**.—Two small Businesses for immediate disposal; one in good position on main bus and tram route; premises held on lease, 16½ years to run; rental £2 7s. 9d. p.w. Takings approximately £765; can be increased under personal supervision. Further Business situate in thickly populated working-class district, with good possibilities for owner manager; premises held on lease, 16 years to run at rental of £60 p.a.; dwelling accommodation sub-let £65 p.a.; turnover approximately £1,090. Full particulars on application. (151)

5.—**LONDON, E.**.—Drug and Photographic Business, for immediate disposal; on lease, 13 years to run, at rental of £120 p.a.; double-fronted shop, with good living accommodation attached; side and back entrance. Further particulars on application. (156)

6.—**LANCS.**.—Old-established Chemist's Business, with Post Office attached; held on quarterly tenancy; lease might be obtained, or property purchased for £1,200; returns, £15 per week, all cash; rent, £78 p.a.; living accommodation; price asked, £750. Full particulars on application. (142)

7.—**NORTH-WEST DISTRICT**.—Family Retail Dispensing Business; double-fronted corner shop, with room at rear; flat with side entrance, consisting of three rooms; two garages; held on lease 12 years at £140 p.a.; flat let off at £103 p.a.; returns average £20 p.w.; can be increased. Full particulars on application. (146)

8.—**BLACKBURN**.—Drug Stores in main thoroughfare, on lease, 7 years to run, at £60 per year; returns, £18; large lock-up shop, with excellent window; stock about £250. Offers invited. (140)

9.—**DORSET**.—Old-established Family Retail Dispensing Business; returns £1,800 p.a., all cash; owner retiring; large shop, fitted mahogany; well stocked; good house attached (at present let at £110 p.a., lease expires October next); property for sale, with business open to offer. Further particulars on application. (153)

10.—**CAMBRIDGESHIRE**.—Old-established high-class Dispensing and Retail Business; held on advantageous lease; well fitted and large stock carried; returns approximately £3,000, at good profit; excellent living accommodation; every investigation invited. Full particulars on application.

11.—**LEEDS**.—Family Retail and Dispensing Business in thickly-populated working-class district; corner position; good opening for Chemist-Optician; dwelling accommodation attached; returns over £1,000; rent £52 per annum; price for quick sale £350; only Kodak Agency for 2 miles. Full particulars on application. (155)

12.—**BERKS**.—Established Pharmacy; lease 6 years to run, with promise of renewal 14 or 21 years; rent £46 p.a.; large 7-roomed house attached; garden and garage. Further particulars on application. (157)

13.—**GRIMSBY**.—Retail Dispensing Business, on main road; vendor's property; lease will be granted at £104 per annum; returns £38 to £40 per week; stock about £750; owner desires to leave district on medical grounds; quick sale desired. (159)

14.—**CAMBRIDGE (Near)**.—Old-established Pharmacy, on lease 20 years at £50 p.a.; returns average £13 per week; double-fronted shop, with good dwelling accommodation. Further particulars on application. (131)

15.—**CHESHIRE**.—Retail Family Dispensing Business; single-fronted shop; good living accommodation; held on lease, five years, at £130 per annum; established 20 years; returns average £32 per week. Full particulars on application. (152)

16.—**CORNWALL**.—Chemist Business, recently established; lease will be granted for 10 years at £100 per annum; double-fronted shop; nicely fitted; well stocked; returns last year £1,300; very large house attached; private entrance; large garden (garage at rear, let off). Further particulars on application.

17.—**LONDON, S.W.**.—Very old-established Family Retail and Dispensing Business, occupying prominent corner position in busy thoroughfare; lock-up shop with storage accommodation; held on advantageous lease at £100 per annum; returns approximately £2,300 per annum; can be increased under personal management; full particulars on application. (148)

18.—**PLYMOUTH**.—Very old-established Retail Dispensing Business; for immediate disposal owing to illness of owner; lease will be granted; part let off at £28 12s. p.a. to excellent tenant; returns £40 per week; double-fronted shop; optical testing room; three stock rooms, all on ground floor; recommended; further particulars on application. (162)

## BERDOE & FISH

### CHEMISTS' VALUERS, AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—**LINCS. COAST**.—Very sound Light Retail Business, in main road position; busy town; returns over £2,000; net profit £600; good house, garden and garage; handsomely-fitted shop, well stocked; price £1,500, or £350 and valuation.

2.—**DEVON**.—Very old-established Light Cash Retail, with N.H.I. and Optics, in main road position of large town; net profit over £800; audited accounts; sudden illness necessitates an early sale; price £2,000.

3.—**SOUTH-EAST COAST**.—Light Cash Retail, with Kodak Agency; returns about £1,900; net profit over £600; low rent; long lease; good stock; price £1,650.

4.—**TUNBRIDGE WELLS (Near)**.—Unopposed good Country Business; pleasantly situated; returns £1,450; books audited; nice house; low rent; on lease; fully stocked; price £1,150.

5.—**SUSSEX COAST**.—Good-class Retail and Dispensing Business, with Kodak Agency; returns average £2,000; good profits; fine position; fully stocked; owner retiring; price £1,600.

6.—**LINCS. (Market Town)**.—Old-established Retail, Dispensing and Agricultural; returns £1,300; plenty of scope; lock-up premises; good house available; price simply valuation, about £300, property £350.

7.—**WEST OF ENGLAND**.—Sound Light Retail Business, in pleasant market town; returns last year about £1,300; under manager; plenty of scope; good house; low rent; price £800, or first reasonable offer.

8.—**LONDON, S.W.**.—Middle-class Cash Business, in busy main road position; present returns £1,700, increasing; net profit £400 last year; books audited; good stock; price £1,400, or offer.

9.—**VICTORIA PARK (Near)**.—Old-established Cash Retail, Prescribing and N.H.I.; returns average £1,550; net profit £500; books properly kept; house attached; on long lease; price £1,000.

10.—**NORTH LONDON**.—Good class Cash Suburban Retail; no photo or optics; returns average £16 a week, plus N.H.I. £20 monthly; lock-up shop; moderate rent; long lease; price £500, or offer.

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

## BUSINESSES FOR DISPOSAL.

**BIRMINGHAM** (main road, shopping centre).—Excellently fitted Chemist's Shop; Spanish mahogany; double-fronted; living accommodation; turnover 3 years between £1,250 and £1,400; 10 years' lease; rent £65; rates £34; let off £60; easily worked single-handed; good profits; must sell to buy country business; stock £350 to £400. What offers around £800? 128/20, Office of this Paper.

**BLACKPOOL**.—Old-established Chemist's Business for Sale on main road, near station and sea, and at a commanding corner position; offering considerable scope; well stocked and very good fittings; price £700, all inclusive; excellent opportunity; owner has other interests. Further particulars apply 87 Dickson Road, Blackpool.

**BRADFORD DISTRICT**.—Chemist's Business, with good house attached; main road; Kodak Agency; N.H.I.; suit keen man with small capital; rent low; price about £400. 110/8, Office of this Paper.

**BRIDLINGTON**.—A bargain, consequent upon death; excellent opportunity for young, qualified man; old-established Pharmacy, in principal street; about £425 at once will buy up-to-date stock and fixtures; no goodwill; receipts average last three years £1,150. Apply Townsend, Solicitor, Bridlington, E. Yorks.

**E.C.**—TAKINGS £1,200; N.H.I., 1,000 scripts per month; under manager; profit rental; thickly populated; bargain for energetic, qualified man. Reply 127/500, Office of this Paper.

**GLoucester**.—Cash Retail and Dispensing, N.H.I.; main road; corner shop; good house attached, with garden; electric light throughout; present hands over 19 years; good profits; rapidly growing district; owner giving up in August; a sound offer; rent, £64; price £700, or near offer. 128/10, Office of this Paper.

**HARROGATE**.—Chemist Business for Sale; fine opportunity for smart young man; new lock-up shop; reason for selling, proprietor gone abroad; takings about £20 per week; nearest competitor three-quarter mile; Kodak Agency. Apply Walker, 4 Commercial Street, Harrogate.

**LONDON, S.W.**.—Compact, profitable, medium-class Business, easily worked; Dispensing; Kodak Agency; living accommodation; suit recently qualified or elderly gentleman; total weekly overhead expenses 15s.; turnover £1,100; worth attention; price by arrangement. "Genuine," 128/11, Office of this Paper.

**LONDON**.—An exceptional opportunity to purchase a very profitable and easily worked Business; returns about £1,600; profits £10 weekly; capable of big increase; lock-up shop; lease, 7, 14 or 21 years; price £750 cash, or would consider £500 down and balance by arrangement. 128/17, Office of this Paper.

**LONDON, S.E.**.—Old-established Chemist Business for Sale; under elderly management of Chemist 74 years old; rent £55 year; lease granted 21 years; price, all at, £275, for quick sale. 128/8, Office of this Paper.

**LONDON SUBURB**.—Dispensing Business for Sale; immediate; death vacancy; premises held on good lease, and situate corner site fronting leading main road in growing London suburb of good-class property; good Prescribing and N.H.I.; turnover for past 3 years exceeds £2,000 per annum; scope for considerable increase with man of enterprise; immediate entry, with occupation of dwelling-house over shop. Apply P.C.B. 31/2, Office of this Paper.

**LONDON SUBURB (Essex)**.—Good-class Business, with Kodak Agency; new double-fronted shop; last twelve months' returns exceed £2,150, and steadily increasing; splendid opening for Optics; small house (separate entrance); large garden; long favourable lease, and low rates; price £1,400 cash; owner has larger business in view. 127/24, Office of this Paper.

**MANCHESTER**.—Drug Stores; old established; same family 57 years; owner retiring; low rent; good living accommodation; electric light; main road; close to city; suitable for qualified man; £265. 127/438, Office of this Paper.

**OXFORDSHIRE**.—Drug, Fancy and General Stores; main road; no opposition; large double-fronted premises; doing over £35 cash weekly; heavily stocked; Kodak and Ingersoll Agency; good opening for Optics and Dental; price £1,850 cash, or £250 and s.a.v.; rent £60. Full particulars and interview to prospective buyer. Apply 124/5, Office of this Paper.

**SOUTHPORT**.—Old-established Chemist's Business for Sale; good turnover; new centre; price £1,300. 17 Clipping Road, Birkdale, Southport.

**SOUTHEND-ON-SEA**.—Chemist and Druggist Business for Sale; comprises a lock-up shop in central main road position; modern oak fittings throughout; long protected lease; price £900; all at; moderate rent. For further particulars apply "T.", 2 Warrior Square, Southend.

**SOUTH WALES** (colliery district).—General Retail, with N.H.I. Dispensing; Medicated Wine Licence; unopposed; average returns last two years over £1,600; premises can be purchased; or lease, £70; price, stock and fixtures, about £1,250. 125/16, Office of this Paper.

**SOUTHERN COUNTY**.—A good-class Mixed Country Business (no heavy trade), returning nearly £6,000 and capable of considerable increase, situate in pleasant small town within easy reach of coast; stock value £2,000; fixtures and fittings, £700; price required £3,700; excellent living accommodation and garden; low rent; 21 years' lease; opposition negligible. Only cash buyers need apply, and references must be sent before opening negotiations. 125/15, Office of this Paper.

**SOUTH YORKS.** (industrial area).—Smart little Pharmacy; turnover, under management, £650, increasing; Kodak Agency; lock-up shop; low rent; main road; satisfactory reasons for disposal; unique opportunity. 128/6, Office of this Paper.

**STROOD, KENT**.—Small, easily managed Business; suit elderly man; fitted mahogany and well stocked; house and garden; class of business, good industrial; returns last year £1,156; profits £390; established 30 years; fullest investigation permitted to genuine purchaser; rent £50, or freehold can be purchased; nearest offer to £425 accepted; family reasons for selling. Write Farrow, Brompton, Chatham.

**WEST SOMERSET**.—Well-stocked seaside Business, centre of rapidly growing residential town; corner position; two large windows, large warehouse, yard, garage and dark rooms; Kodak and Rexall Agency; Optics just started; returns last 7 years, £1,200, £1,563, £1,970, £1,658, £1,777, £1,878, £2,047; well-built 3-storey house; freehold; inclusive price £3,500. 125/24, Office of this Paper.

**YORKS.** (Bridlington).—Established 20 years; sale owing to death; turnover £1,200; price £400, or valuation; old-established Country Business; Rexall and Kodak Agencies; Wines and Spirits; turnover £7,000; price, with property, £4,000. W. Riding City, Pharmacy, in industrial area, doing £14 and 170 scripts weekly; price £500. Also good-class Family Dispensing Business, doing £2,600; splendid house; price £1,800. Charles C. Marsden, Chemist's Valuer, 44 Sholbrooke View, Leeds.

**CHEMIST'S and DRUGGIST'S** Business for disposal; owner going abroad; genuine old-established concern in country town, South of England; full investigation invited; £1,375, including good freehold premises, dwelling-house, etc.; utensils and about £375 worth of stock; immediate possession given. Apply 127/443, Office of this Paper.

**COUNTRY** Business; well fitted and stocked; lease, with option to purchase; living accommodation available, or lock up; low rent; Kodak Agency, and good season Photographic trade; profitable and growing Optical connection; Rexall Agency; N.H.I. average 400 scripts a year; profitable proprietaries; good position; turnover £850; £500, or £350 down and balance in 6 months. 127/23, Office of this Paper.

**FOR** Sale, through unusual circumstances, Business connected with manufacture of Rat and Mouse Preparation; complete stock, value £55, to be sold for £40. Kindly enclose 1s. 6d. P.O. for complete details, showcards, etc. (returnable). "B. D." 2 Sydney Terrace, Lancaster.

### PROPRIETARY MEDICINES.

FOR Sale by the Receiver of John Morgan Richards & Sons, Limited (in Voluntary Liquidation), either separately or together with the Goodwill and Business of the Company, the Valuable Proprietary Rights, including Trade Marks, Formulae, etc., of Lactopeptine, Pontampons, Sequah Preparations, Sir Hiram Maxim's Pipe of Peace and Inhaler. Full particulars as to present and past sales, annual profits over a period of years, markets covered by the said Proprietary Rights, etc., can be obtained from the Receiver, 46 Holborn Viaduct, London, E.C.1.

**GENUINE** Business for Sale near Manchester; large well-stocked double-fronted shop, with good living accommodation; on lease, at low rental; takings £950, including N.H.I.; illness cause of sale; price £500. 128/2, Office of this Paper.

**GENUINE**, compact, easily worked Cash Business; good Photographic connection; no near opposition; £500, or (R.P.U.) valuation entertained; health reason for disposal; £950 turnover, including 250 N.H.I. prescriptions a month. 129/14, Office of this Paper.

**ILLNESS**.—For immediate disposal gold-mine of a Business in large town, S.W. of England; returns (without any Kodak or other agencies) over £2,000; net profit over £800, for many years past; easily worked by qualified person and present apprentice; premises for sale or lease of lock-up business portion. 124/10, Office of this Paper.

**IN** prosperous West Riding town, busy street. For Sale, Freehold Premises and Chemist and Druggist Business; good-class Family, Photographic and Optical; Kodak Agency; Wine Off Licence attached; double-fronted shop; average turnover last three years £2,310. Address 125/23, Office of this Paper.

**IN** a Home County, 40 minutes from London, Family Retail and Dispensing Business, with freehold property, for sale; established over 20 years; in main thoroughfare, in rapidly growing district; Kodak Agency; mahogany fixtures; stock in good condition; excellent opening for Optics: electric light; store rooms at rear; dwelling accommodation, with private entrance; large garden; accounts audited; price, including freehold, £3,500; banker's reference given and required. 127/36, Office of this Paper.

**O**LD-ESTABLISHED Business, Manchester district; Light Retail and Dispensing; Ucal, Kodak, etc.; very prominent position; leasehold lock-up shop; rather neglected owing to illness; chance of a lifetime for live man who knows his business; stock and fixtures, and small sum goodwill; about £750 required. Further particulars apply 127/446, Office of this Paper.

**S**EA SIDE Business, North-West Coast; main road; living accommodation; Kodak Agency; complete D. & P. plant; opening for Optics; well fitted and fully stocked; held on lease, with option to purchase; all cash; profitable. 124/1, Office of this Paper.

**£250.**—Good Business in select suburb of good Lancashire town, recently opened and doing £10 per week; up-to-date stock and well fitted; small N.H.I.; plenty of scope for considerable increase; several hundred houses in course of construction in immediate vicinity; lock-up shop; house may be let if necessary; sound reasons for disposing of same. 128/30, Office of this Paper.

**£300.**—Genuine offer of small Pharmacy, badly neglected £100. under management; West Riding; cash takings only £13 weekly at present; N.H.I. 400 per month, can be doubled by energetic young man as district offers remarkable scope; good large window and smaller one; electric light and basement; expenses small; good saleable stock and modern fittings; price for stock and fittings only; no goodwill; genuine inquiries only. For permission to view apply 128/1, Office of this Paper.

**£350** for quick sale; Branch Cash Pharmacy; rapidly growing suburb, large western city; industrial neighbourhood; returns £800; rent £70; sublet £60; splendid opportunity for beginner; genuine reason for disposal. Apply 128/23, Office of this Paper.

**£450** down and agreed balance in two six-monthly payments; good-class, growing Business, North London, having first call on 5,000 to 6,000 inhabitants; lock-up shop, well stocked; long lease; now doing £17 per week; has been neglected; low price for quick sale. Particulars at interview. 128/14, Office of this Paper.

**£500.**—UNOPPOSED Country Business; takings £12, plus N.H.I.; 287 for May and all doctors' prescriptions; Kodak Agency; electric light; good house; large garden; long lease; rent, with rates and taxes, £1 per week. Further particulars on application. 125/5, Office of this Paper.

**£800.**—NICE Seaside Business, near Blackpool; near beach on main street; no near opposition; good double-fronted shop and house, with garden; room for garage; suit young man commencing or Chemist wishing easy business; lease can be had. Apply 125/3, Office of this Paper.

## BUSINESSES WANTED.

**C**HEMIST, with well-established Business in desirable country district, wishes to exchange or purchase similar business in seaside resort; South or South-East; returns over £2,000, increasing. Particulars to 124/35, Office of this Paper.

**W**ANTED, immediately, Chemist's and Druggist in suburb of London; good price for first-class business. 127/441, Office of this Paper.

## AGENCIES.

**S**OUTH AFRICA.—Progressive firms desirous of extending their business in South Africa can secure the services of a man with long experience, high reputation, and best references as their Resident Representative; well known to the best buyers in the Drug and Allied trades throughout the Dominion. Write to 127/439, Office of this Paper.

**E**XPORT Agent, leaving for Canada (Quebec and Ontario) towards end of August, desires additional Representations upon the basis of contribution towards expenses and commission; connection chiefly with Wholesale firms in these provinces of 20 years' standing, and will guarantee a minimum turnover. Reply 127/442, Office of this Paper.

## PREMISES TO LET.

**P**REMISES (corner) to Let or Sell, freehold, shortly in hand, suitable Chemist, Doctor, Dentist; thickly populated neighbourhood, Broadway, London Fields, Hackney, London; also adjoining if required. Write Briggs, c/o Royal Colonial Institute, Northumberland Avenue, London.

## PREMISES FOR SALE.

**M**OLD (NORTH WALES).—Shortly for Sale, or by Private Treaty, valuable Freehold House, Shop and Premises; suitable any business; most important site in main street of this prosperous town. W. P. Edwards, 17 High Street, Mold.

**S**URREY.—Freehold Shop Premises for Sale; price £950, or might let to suitable person; now a Chemist; only built 2 years; good living accommodation, with garden; working-class district; good opening under owner. 126/20, Office of this Paper.

## NOTICE.

### COUNTIES OF FIFE AND KINROSS.

### VENEREAL DISEASES.

### ORDER BY THE SCOTTISH BOARD OF HEALTH.

WHEREAS by Section I of the Venereal Disease Act, 1917, it is enacted as follows:

"I. (1) In any area in which this section is in operation a person shall not, unless he is a qualified medical practitioner, for reward either direct or indirect, treat any person for venereal disease, or prescribe any remedy therefor, or give any advice in connection with the treatment thereof, whether the advice is given to the person to be treated or to any other person.

"(2) This section shall operate in any area to which it is applied by Order of the Local Government Board, or in Scotland and Ireland, the Local Government Board for Scotland and Ireland respectively."

"Provided that no Order shall be made in respect of any area until a scheme for the gratuitous treatment of persons in that area suffering from venereal disease has been approved by the Local Government Board, or in Scotland and Ireland, the Local Government Board for Scotland and Ireland respectively, and is already in operation."

AND WHEREAS in terms of the Scottish Board of Health Act, 1919, the powers and duties of the Local Government Board for Scotland have been transferred to the Scottish Board of Health.

AND WHEREAS the Scottish Board of Health have approved a scheme for the gratuitous treatment of persons suffering from venereal disease within the area of the Counties of Fife and Kinross and the Burghs therein which scheme is already in operation.

NOW THEREFORE WE the Scottish Board of Health by this our Order declare that Section I of the Venereal Disease Act, 1917, shall operate from and after the Thirty-first day of May, Nineteen Hundred and Twenty Eight, within the area of the Counties of Fife and Kinross including the Burghs therein.

GIVEN under the Seal of Office of the SCOTTISH BOARD OF HEALTH this Thirty-first day of May in the year One Thousand Nine Hundred and Twenty Eight.

(Sgd.) John Jeffrey,

L.S. Secretary to the Scottish Board of Health.

All of which notice is hereby given.

J. M. MITCHELL,

Clerk and Treasurer.

County Buildings,  
CUPAR, 4th June 1928.

## PREMISES WANTED.

**D**ENTAL Surgeon requires Two Rooms over Chemist's Shop in small town; Surrey, Sussex or Kent. Address Box 70, Dental Manufacturing Company, 17 Newman Street, London, W.1.

## SITUATIONS OPEN.

### RETAIL.

### [HOME.]

**B**IRMINGHAM (Near City).—Qualified Manager, age about 35, required early August, with own initiative, to work up neglected, old-established business; good N.H.I. and Photographic (D. & P.); no Sunday duty essential; salary and commission (£300 per annum guaranteed); interest offered in private Limited Company to right man with small capital; rare opportunity to energetic worker. Fullest particulars first letter, experience, age, etc.; excellent references essential; photo (returnable). 128/22, Office of this Paper.

**BOURNEMOUTH.**—Smart, energetic Qualified Assistant for good-class Retail, Dispensing and Photographic Business. State age, height, experience, salary (outdoor) and when disengaged, with photo and references of two last engagements, stating how long held, to C. Vivian, 10 Roslin Road, Bournemouth.

**CARDIFF DISTRICT.**—Qualified for suburban branch; family trade, with some Photographic and N.H.I.; suitable for lady. Apply 124/6, Office of this Paper.

**CHELTENHAM.**—Cash business; Qualified Assistant, either sex. Please state full particulars, including references, salary required, age, height, experience, and when disengaged. P. Hawley, 83 Winchcombe Street, Cheltenham.

**CROYDON.**—Unqualified Assistant (male), under 30, for brisk Cash Business, with N.H.I.; must be quick and reliable Dispenser, with good all-round experience. State age, height, salary required, and when at liberty. 127/11, Office of this Paper.

**EARL'S COURT.**—A smart young Junior; quick, accurate Dispenser, with good general experience in good-class pharmacies. Usual particulars to T. A. Jackson, 308 Earl's Court Road, S.W.5.

**FELIXSTOWE.**—Immediately, for summer season, competent Junior, with good experience; outdoors. Usual particulars to H. F. Douthwaite, Pharmaceutical Chemist, Felixstowe.

**HAMPSHIRE.**—Unqualified Junior Assistant (outdoor) required in good-class business; duties mainly Dispensing, but to assist generally; Dispensing experience essential; abstainer preferred; references must bear strictest investigation. Apply 126/23, Office of this Paper.

**LONDON.**—Young qualified Assistant required immediately; must be quick and reliable; good prospects for ambitious man; good salary. Letters not answered within three days respectfully declined. Apply G. W. Todd, c/o M.C.C., Ltd., 510 Harrow Road, Paddington, W.9.

**LONDON, W.**—Qualified Dispenser (male) required, age 22-28; must have sound experience and references. State fully particulars as to height, salary required, etc., to J. F. Harrington, 15 Kensington High Street, W.8.

**LONDON SUBURB.**—Capable Assistant required immediately; qualified preferred, but not essential; age not over 30. Apply, stating experience, references and salary required, to 126/29, Office of this Paper.

**LONDON, E.C.**—Unqualified Manager required for Drug Stores, with Kodak Agency; good Window-dresser and used to Toilet trade; house accommodation over premises. Apply, stating age, experience, references, salary required, to 128/80, Office of this Paper.

**LONDON, S.E.1.**—Assistant for working-class business and N.H.I.; references must bear strict investigation; also lady Assistant required; ages not over 30; permanency and good prospects to suitable applicants; can wait one month if necessary. Apply (in confidence), with full particulars, to 127/448, Office of this Paper.

**MIDLANDS.**—Qualified Assistant for business in suburb of industrial town; good opportunity for young man wishing to make progress. Give full particulars, stating age, salary required, and when at liberty. 125/270, Office of this Paper.

**MIDLANDS.**—Qualified Assistant for Agricultural and Dispensing Business. Please send particulars of experience, references, photo, stating salary expected, to 127/445, Office of this Paper.

**NEWPORT (MON.).**—Capable Qualified Assistant required immediately; must be good Counterman and well up in all branches. Apply, enclosing photograph (will be returned), stating experience, references and salary required, to I. J. Badgett, Chemist, Clarence Place, Newport (Mon.).

**SOUTH MIDLANDS.**—Pharmacist and experienced Optician wanted middle June; responsible position; good salary and permanency to reliable man. Please give full particulars in first letter. 118/19, Office of this Paper.

**ST. ALBANS.**—Unqualified Assistant, chiefly for Dispensing; 21 to 25; high-class Retail; four assistants employed. State salary required. Sibbells & Warren, London Road.

**SUSSEX COAST.**—Qualified Manager, with Optical experience, required for good-class Retail, Dispensing and Photographic; good references essential. Give full particulars of experience, age and salary expected; enclose photo if possible, which will be returned. Coates, Chemist and Optician, Littlehampton.

**SUSSEX COAST.**—Junior Assistant wanted, not under 21 years; smart Counterhand essential. State experience, last employer, when disengaged, height and salary required (indoors), enclose photo (will be returned). Apply 127/12, Office of this Paper.

**WESTCLIFF-ON-SEA.**—Qualified Assistant wanted, with view to management; must have good references. Apply, giving full particulars of experience, salary required (enclosing photo if possible), to F. H. King, M.P.S., 182 Hamlet Court Road.

**WEST RIDING.**—Qualified Manager, single, required for Light Retail and Dispensing (N.H.I.) business; industrial neighbourhood; permanency with interest in the turnover offered to suitable applicant. "W.R." 125/27, Office of this Paper.

**A SCOTT'S PHARMACIES, LTD.**, require Unqualified Assistant for holiday relief, July and August. Apply, stating experience, references, salary, etc., to 169 Hemingford Road, N.1.

**A SSISTANT Dispenser and Book-keeper wanted.** Write, stating age, experience, and salary required, to Drs. Mooney & Dias, 64 Stephenson Terrace, Preston, Lancs.

**A SSISTANT, unqualified, required at once;** must be obliging and willing. State experience, capabilities and salary to "Chemist," 186 Mare Street, E.8.

**A SSISTANT, qualified, wanted, age 23-24; outdoors;** good Dispensing and Counter experience essential, with Photographic. Send full particulars in first letter, enclosing photo if possible, to Sewell, Chemist, Huntingdon.

**A SSISTANT;** quick and accurate Dispenser, good Counterman, knowledge of Photographic; must be of good appearance and address; interview necessary; 25-30 years of age. C. J. Roe, Chemist, Epsom.

**CHEMIST;** qualified and experienced; knowledge Photography essential; take charge department, country store, Bucks. Copy references and salary to 125/6, Office of this Paper.

**CAPABLE Qualified Manager wanted at once;** single; able to handle a good Photographic trade and accustomed to Yorkshire people; salary £4 10s. and commission. Hadfield Excts., Rexall Chemists, Milnsbridge, Huddersfield.

**CHEMIST-OPTICIAN,** registered, wanted for East London. Reply, stating salary required and when disengaged, to 127/3, Office of this Paper.

**COMPETENT male Assistant for Counter and Optical room (London);** must have J.C.Q.O. qualifications. Write, giving age, experience and salary required, to P.C.B. 30/22, Office of this Paper.

**COMPETENT Junior Assistant required,** accustomed to good-class Retail and Photographic. Apply, with full particulars, to Holt Green, 4 The Arcade, Victoria Station, S.W.

**DISPENSER-CHAUFFEUR for Maternity Centre in North London;** £110 per annum, with board, residence and laundry; Hall qualification; drive and care of Morris Cowley car. Applications by June 16 to undersigned, from whom particulars can be obtained. L. M. Brooks, Warden and Secretary, 8 Hunter Street, W.C.1.

**EXPERIENCED, qualified Manager for well-stocked and nicely fitted branch;** age 30 to 40; must be careful Dispenser and good Prescriber; permanency and good salary to man who will take keen interest in the business. Apply to Prebbles, Ltd., 187 Kensington, Liverpool.

**FINDLAY & SONS, Newport,** require qualified Assistant, capable, energetic, for quick Retail, N.H.I.; thorough knowledge of Photography; Window-dressing; permanency to suitable man. State all particulars, salary, experience, references, first letter.

**FOR HOLIDAY RELIEF.**—Junior Assistant required, last three weeks in July and whole of September. Please give usual particulars. Litchfield, South Farnborough, Hants.

**IMMEDIATELY.—Capable Assistant,** qualification not essential if good man, but must have recognised Optical Diploma, for good-class Dispensing and Prescribing business. Apply Bailey & Alexander, 9 Strait Bargate, Boston.

**IMMEDIATELY.—Assistant for business in Home County,** to take charge of Optical Department and assist at Dispensing Counter; must have J.C.Q.O. qualification and highest references. State experience, age, and salary required. 116/34, Office of this Paper.

**IMPROVER required for busy N.H.I. Dispensing and Retail trade.** State age, salary required, and full particulars, with photo, to S. Paddon, M.P.S., 657 Attercliffe Road, Sheffield.

**J.C.Q.O. ASSISTANT required in Chemist-Optician business;** knowledge of Dispensing and Photography; prospect of management. Usual particulars to A. Lawson, 83 High Street, Hounslow, Middlesex.

**JUNIOR;** must be accurate and quick Dispenser, well educated, good appearance, knowledge of Photography, and some Counter experience essential; not afraid of work. Send full details and photo to Wride, Chemist, Winchester.

**JUNIOR or Improver wanted immediately for South Coast town.** Send full particulars in first letter of age, height, and salary required to Green, 71 Buckingham Road, Brighton.

**JUNIOR Assistant required by July 2 for Counter and Dispensing;** knowledge of Photographic Sales essential. Apply, with references and salary required, enclosing photograph, Atkins & Son, Pharmacists, Salisbury.

**JUNIOR Assistant in good-class Pharmacy, S.E. London district;** good Window-dresser; state salary. Apply 127/21, Office of this Paper.

**LADY CHEMISTS, LTD., Mill Hill,** require lady Locum for one week from July 16; state terms; living in preferred.

**LOCUM, qualified, for month of July in mixed country business;** three on staff. G. M. Perkins, M.P.S., Knighton, Radnorshire.

**LOCUM required (qualified) for week commencing June 18.** Reply, stating terms, to Willey, Chemist, Knaresborough, Yorks.

**LOCUM Dispenser, qualified, required by a firm of Doctors in Norwich from July 16 to 28 inclusive.** State usual particulars. 124/38, Office of this Paper.

**LOCUM Dispenser for Doctor's Surgery; August 12 to 28 inclusive.** Particulars to 124/25, Office of this Paper.

**LOCUM.—Qualified Pharmacist for three weeks commencing June 30 to July 21 inclusive; no Sunday duty; hours 10-12.30 p.m. and 5.30-8.30 p.m.; £3 15s. per week, with travelling expenses.** Apply Cutler, Boulter Dispensary, Worcester Street, Oxford.

**LOCUM required, qualified, from July 2 to July 14, both dates inclusive.** Rippsons Pharmacy, 157 Uxbridge Road, Hanwell, W.7.

**LOCUM, qualified, to take charge, wanted for fortnight between June 22 and July 14;** fully experienced in Photographic side; young preferred. State salary, age, references, dates to Nash, Chemist and Photographic Specialist, 41 London Street, Reading.

**LOCUM wanted, June 28, for three weeks;** apprentice kept; apartments provided; local man preferred; must furnish good references. Kirkland, Crickhowell, Breconshire.

**M**ANAGER required for Family and Dispensing business in S.E. London; comfortable berth for man who is thoroughly trustworthy and energetic; first-class references essential. 127/26, Office of this Paper.

**M.P.S.**, LADY, required, with experience in high-class Dispensing business, age not under 28; residential district, Midlands. Send full particulars and state when disengaged. 128/7, Office of this Paper.

**Q**UALIFIED Chemist, elderly, required, to live in maisonette over shop, at Harrow; pleasant surroundings; duties very little. State age, salary required, and particulars. P.C.B. 30/11, Office of this Paper.

**Q**UALIFIED Assistant (male), young, single, for Light Retail and Dispensing business. Write, stating age, experience and salary required, Chas. J. Taylor & Son, 292 Cheriton Road, Folkestone.

**Q**UALIFIED Junior or lady required near London; must have had good Counter and Dispensing experience; permanency if satisfactory. Write, giving full particulars, to E. N. Holding, Chemist, Dagenham, Essex.

**Q**UALIFIED man wanted immediately; must be good Dispenser, Window-dresser, Salesman; energetic; experienced; able to use own initiative; good-class suburb; salary and commission paid; married man preferred, about 30; good appearance essential. P.C.B. 30/35, Office of this Paper.

**Q**UALIFIED Assistant (male), young, for high-class Dispensing and Retail business. Apply by letter in the first instance, stating age, experience, references, and salary required (photo, if possible), to W. A. Weston, 8 Sandringham Parade, Ealing, W.5.

**Q**UALIFIED lady Assistant; comfortable berth; short hours; Glamorgan. Full particulars and terms first letter. 125/4, Office of this Paper.

**Q**UALIFIED.—Assistant Manager, lady or gentleman, for a middle class trade, with N.H.I. Dispensing, for June 18; elderly gentleman not objected to if active. Please state age, height, and salary required, with recent references and photo. 126/32, Office of this Paper.

**Q**UALIFIED lady; July 1; good-class Dispensing and Photographic business; comfortable post; £4 weekly; London, N.W.1; permanency if suitable. 127/28, Office of this Paper.

**R**EALLY live Manager required; one accustomed to high-class Camera and Cine Sales; able to control staffs; preferably trained for Sight Testing. Apply, giving experience, references, and salary required, to Wm. McIntosh (Sheffield), Ltd., Change Alley, Sheffield.

**R**ELIEF Manager, age 26-30, required for holiday season; for a trustworthy man of ability a permanent engagement would follow; good Window-dresser with Photographic experience. Apply to 127/449, Office of this Paper.

**S**TOCKTAKER required immediately; applicants must have had experience in similar capacity. Particulars of experience, also age and salary required, must be given in first letter. 125/271, Office of this Paper.

**T**HOMPSON & CAPPER, LTD., Liverpool, will shortly have a vacancy for a really first-rate experienced Manager for one of their branches; he must be thoroughly efficient in Photography and up to date in every respect. Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

**T**HOMPSON & CAPPER, LTD., require a Junior Assistant as Locum at their 31 Darley Street, Bradford, branch, for the four weeks from July 30 to August 25. Please give particulars and enclose photograph (if possible). Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

**T**IMOTHY WHITE CO., LTD., have vacancies for unqualified Assistants; free removal. Write, giving full particulars of experience, etc., to Secretary, Timothy White Co., Ltd., Chemists, Portsmouth.

**U**NQUALIFIED Assistant, with West-End experience, required; good Salesman, Window-dressing and Dispensing essential. Apply G. D. Murphy, 143 Charing Cross Road, W.C.2.

**W**ANTED, immediately, unqualified lady Assistant for three months; must have had good Dispensing experience. Write, stating salary (indoors) and all usual particulars, with references, to W. H. Carter, P.C.B., 9 High Street, Congleton, Cheshire.

**W**ANTED, qualified Assistant for June 11; small' country business; state salary; must be moderate; would suit middle-aged man; very easy and comfortable berth. 125/11, Office of this Paper.

**W**ANTED, qualified Assistant, not under 25 years (male), for good-class Retail and Dispensing. Please state full particulars in first letter. Blackmore, Weston-super-Mare.

**W**ANTED, qualified Dispenser and Book-keeper (female) by Doctor in Sussex; salary £2 10s. per week; outdoor. State full particulars, age and experience to 127/10, Office of this Paper.

**Y**OUNG qualified Assistant required for high-class Family Dispensing business in S.W. London; must be good and tactful Salesman and good Window-dresser. Give full particulars of age, height and salary required and photograph to C. R. Toyné, Ltd., Head Office, 75 West Street, Brighton.

**Y**OUNG qualified Assistant required for Brighton district; good Counterman. Give full particulars in first letter to Leon Drug Stores, Ltd., 75 West Street, Brighton.

## WHOLESALE.

**L**ONDON.—Required, Assistant for manufacture of all Toilet Preparations; age not over 35; good experience essential. P.C.B. 30/10, Office of this Paper.

**A** WELL-KNOWN Proprietary, re-arranging ground, requires several Representatives on 15% commission basis; grounds open, East Midlands, East and South Coasts, West of England; state ground covered, how often, lines carried, references, connection if any. 126/19, Office of this Paper.

**A**BUNDANT opportunities of advancement and remunerative position offered to Travellers who can develop present sales of advertised Proprietary lines; successful applicants will be given a month's trial on liberal commission basis; if satisfactory appointment to permanent sales force follows on salary and commission. 124/30, Office of this Paper.

**C**ARRIE & CO. require Traveller on other lines to carry Haemorrel as side line; all districts. Write, stating commission required and ground covered, to 60 Thornton Road, Bradford, Yorks.

**C**OMPETITIVE firm, old established, require Representatives for Lancashire and Yorkshire, Scotland and Ireland; good salary and commission; only those with established connection Wholesale Druggists need apply; would not object to candidate already carrying one or two leading lines. Reply to 124/35, Office of this Paper.

**E**XPERIENCED Invoice Clerk required by London firm of Wholesale Druggists. Apply, with full particulars of experience and references, to "Areca," 127/440, Office of this Paper.

**F**IRM of Biscuit Manufacturers about to market a new Health Food Biscuit of valuable medicinal properties desire Sole Representatives for areas on a liberal commission basis; applicants should have good, well-established connection among Chemists and Drug Stores; splendid opportunity for right men with experience of pioneer work. Give full particulars of experience, ground covered, and lines already being handled. Address Box 42, Commercial Advertising Service, North Parade, Manchester.

**R**EPRESENTATIVE required to call on Chemists with Druggists' Sundries; established connection in Southern Counties essential. Apply 127/444, Office of this Paper.

**R**EPRESENTATIVE required, calling upon Chemists, Doctors and Hospitals, to sell Bottles, Sundries, also Wholesale Perfumers, etc., to sell Essential Oils. State connection, experience and salary, giving full particulars. 127/453, Office of this Paper.

**R**EPRESENTATIVES, on commission basis only, for all parts of England (London excepted), with strong personal connection amongst Chemists and Buyers of high-class Toilet Soaps and Preparations; must have other good agency; existing connection handed over. Give full particulars of lines carried, territory, and turnover, in confidence. P.C.B. 30/36, Office of this Paper.

**R**EQUIRED, by old-established British Food Manufacturers, Representative who has good connections with Chemists in London and suburbs who can take on a Selling Agency for certain Invalid Food Preparations; to work on generous commission; only those with good Chemist connections through having other well-known articles to offer need apply. Write Box 163, c/o Streets, 8 Selle Street, London, W.C.2.

**R**EQUIRED, by Manufacturing Chemists, Packer, age about 24; experience necessary; one living in North London preferred. Apply, stating age, wages, etc., to 127/450, Office of this Paper.

**S**HORTHAND-TYPIST required, with some experience, for Surgical Instrument House. Apply, giving particulars, stating age and salary required, P.C.B. 30/38, Office of this Paper.

**T**ABLET Maker, experienced, required for London; used to Mixing; qualified man preferred. Write, stating experience, salary and age, P.C.B. 30/35, Office of this Paper.

**W**E have vacancies for several Salesmen for Proprietaries; must be well known to Chemist and Druggist trade and a proved sales record; salary, expenses and commission. Write (in strictest confidence), giving full information of experience, territory covered, 127/457, Office of this Paper.

## (COLONIAL, INDIAN AND FOREIGN.)

**A**USTRALIA.—Qualified Chemist; age about 25; sound, practical experience in Analytical work, Essential Oils and Flavourings; salary £400; passage paid. Apply, with particulars, "I. V. L. F.", Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.

**C**EYLON.—Qualified Assistant; gentlemanly appearance and address; good Counterman and Dispenser; age 22/24; single; 4 years' agreement; passage paid out and home; good salary and allowances. Full particulars, with photo if possible and copies of testimonials, to Box L. 464, Willings, 133 Moorgate, London, E.C.2.

**S**INGAPORE.—Qualified Assistant; Scotsman; splendid opportunity for active man with good Window-dressing, Counter and Stock-keeping experience; 3 years' agreement; passage paid. Particulars from and applications, with photo if possible, to Brown, Chemist, Bridge of Allan.

**SITUATIONS WANTED.****RETAIL. [HOME.]**

**A.A.A.** —EXPERIENCED, middle-aged man urgently desires permanency; abstainer; disengaged; very moderate salary; offers invited. "Active," 24 Clifton Hill, Brighton.

**A.A.** —LOCUM or permanency; unregistered; quick Dispenser and Counterman; Prescriber; state salary. "Statim," 16 Brixton Road, S.W.9.

**A.** —QUALIFIED, 29, all-round experience, seeks change, view permanency; Manager or Assistant; Yorkshire or Midlands preferred. 127/22, Office of this Paper.

**A** experienced man in live business or good Stores; Dispensing, quick, accurate, neat, Counter, Prescriber, Salesman, Photo, Optics, Surgical and Medical Appliances. "G." 130 Scott-Ellis Gardens, N.W.8.

**A** SSISTANT; age 20; tall; Part I; City experience; good reference; disengaged; terms. K. C. Gilbert, "Fairlawn," Heathfield Road, Wavertree, Liverpool.

**A** SSISTANT; unqualified; age 22; 5 years' experience; good Window-dresser, Salesman, Dispenser, with sound Photographic and all-round knowledge. "F. S. P." 32 Ommaney Road, New Cross.

**A** SSISTANT; unqualified; temporary or permanent; experienced and capable; Dispensing, Counter and Photographic good references. "L. S. M." 10 Orb Street, Walworth, London, S.E.17.

**A** SSISTANT, 31; unqualified; experienced; able to take charge; excellent references. Apply 124/32, Office of this Paper.

**A** SSISTANT; 35; disengaged; speaks Italian and French; 14 years' Continental and West-End experience; excellent references; London preferred. Rest, 32 King Street, Baker Street, W.

**A** SSISTANT; 32, married, desires engagement; 13 years' experience; good-class Retail, Dispensing and Photographic business; preferably with living accommodation, but not essential. Andrews, 101 Boundary Road, N.W.8.

**A** SSISTANT, unqualified, 23, tall, requires position until end of September; good experience all branches. John, Brecon Road, Hirwaun, Glam.

**A** SSISTANT; 25; tall; unqualified; 11 years' good-class experience, Dispensing, Counter, Photography, and Window-dressing; Locum or permanency; South Coast preferred. "J. R." "Dunster," Chestnut Grove, Fleet, Hants.

**A** SSISTANT; young; 10 years' all-round experience; busy Counter, N.H.I., Photography; unqualified; London or Southern district preferred. 128/15, Office of this Paper.

**A** SSISTANT; good varied experience; speaking French and German; Locum, part time or permanency. 127/27, Office of this Paper.

**B**RANCH Manager, qualified, married, age 27, desires position; wage £5 per week; good references. 127/2, Office of this Paper.

**C**HIMIST'S Assistant requires engagement in London or district (West-End preferred) with Doctor, Hospital, or in shop; careful and accurate Dispenser; referred Pharmacy; good references; moderate salary. Griffiths, 23 Hamilton Road, Harrow.

**C**HIMIST and Druggist, 24, 6 ft., desires progressive post in City, West-End or good-class suburban Pharmacy; good address, and has sound business and Pharmaceutical training in the North and London; past 3 years as Manager; thoroughly understands buying and selling, Window-dressing, etc.; would entertain post with view to succession. Apply "M.P.S." 35 Sinclair Road, W.14.

**C**OMPETENT, energetic, thoroughly experienced Assistant requires engagement for the whole of July and permanency from August 15; quick, accurate Dispenser, persuasive Salesman; Photography; good references. "Pharmacy," 7 Ormonde Terrace, Primrose Hill, N.W.

**D**ISENGAGED; qualified; tall; single; 34; all-round Counter and Dispensing experience; energetic; good Window-dresser. B. Mills, 62 Cowper Street, Northampton.

**J**UNIOR; unqualified; well educated; 23; all-round experience, Dispensing, Counter, Photography; references. Reply "Advertiser," 4 Trinity Square, Brixton, S.W.

**J**UNIOR, 5 years' experience, desires post as Junior or Improver. O'Hara, 44 Temple Road, Kew Gardens, Surrey.

**L**ADY, M.P.S., 23, fully experienced, desires position, Assistant or Manageress. 121/4, Office of this Paper.

**L**ADY, qualified, 10 years' all-round experience, desires engagement; Leeds or Manchester. Apply 125/17, Office of this Paper.

**L**ADY Dispenser, young (Hall), fully experienced, desires post, Doctor, Hospital, Chemist; willing to assist in any way. 125/28, Office of this Paper.

**L**ADY Pharmacist; 28; experienced Counter and Dispensing; London or Western district preferred. "M.P.S." Niton, High Road, Hayes, Middlesex.

**L**OCUM; unqualified; available June, August; good Dispenser, Salesman, Window-dresser; could manage small shop; salary £4; London, S.W. preferred. Apply, with particulars, "Locum," 159 Acre Lane, Brixton, S.W.2.

**L**OCUM or season Assistant; seaside or country; fully experienced Dispenser; all-round man; free June 18. "Ajax," 14 Daisy Road, Woodford, London, E.18.

**L**OCUM Dispenser for Doctor; booking dates now; varied experience; highly capable; Hall qualification. Kaye, Roscoe House, Sheepscar Street, Leeds.

**L**OCUM; qualified; experienced; now disengaged; any periods; good references. Apply 124/36, Office of this Paper.

**L**OCUM; qualified; experienced; good Salesman; anywhere; best references; free July 1-8 and after July 22. 80 Brookbank Road, Lewisham, S.E.

**L**OCUM; booking dates; free onward; take entire charge; abstainer; excellent references; knowledge of Photography. "Pharmacist," BM/ZP6N.

**L**OCUM.—M. Smith, 96 Humberstone Drive, Leicester (permanent address); over 30 years' qualified experience; disengaged till July 21.

**L**OCUM; qualified; disengaged June 11 to 30 inclusive. "Chemist," 55 Geraldine Road, Wandsworth, S.W.18.

**L**OCUM; qualified; experienced; disengaged June 9 to 23, July 14 onwards; moderate salary. "Chemist," 13 Disraeli Road, W.5.

**L**OCUM; experienced; registered R.P.U. Montague Watson, Woodberry Way, Walton-on-Naze.

**L**OCUM; unqualified, middle-aged, thoroughly experienced; disengaged. "Locum," 65 Birrell Road, Nottingham.

**L**OCUM or permanency; unqualified; 35; experienced and trustworthy. 205 Dewsbury Road, Leeds.

**L**OCUM; experienced; qualified; disengaged until July 14 and July 30-August 18. "Chemist," 32 Fairmount Road, Brixton Hill, S.W.2.

**L**OCUM; highest references; dates free, July 29 to September 10 only. "Locum," c/o Mr. Reavley, Burford, Oxon.

**L**OCUM, registered R.P.U., experienced, has vacant dates June 24 to July 8 inclusive. "Locum," 30 Rosslyn Road, E.17.

**L**OCUM; permanency preferred; unqualified; at present disengaged; all-round experience; capable of taking charge; good references; 20 years' experience; terms moderate. "Scottie," 55 Brightside Road, Lewisham, S.E.13.

**L**OCUM; 33; qualified (Minor); experienced; Hospital, Retail, permanency preferable; free June 18; South Coast preferred. "Chemicus," c/o Dispensary, Guy's Hospital, London, S.E.1.

**L**OCUM; disengaged part each July, August, September; R.P.U.; references; fullest experience. Jenkins, c/o E. Milne, Chemist, Budleigh, Salterton.

**M**ANAGER; qualified; Midlands preferred; experienced, active and reliable; interview desired. Briggs, 8 Brooke Street, Dudley.

**M**URIEL PRICE, M.P.S., experienced Locum; disengaged July 9 to 21, July 23 to August 10. 51 Priesthills Road, Hinckley, Leices.

**M**.P.S.—CAPABLE Manager or Assistant, young, energetic, well educated, good references, and F.B.O.A., J.C.Q.O., desires situation with or without Optics, or would introduce Optics, in Blackpool, St. Annes, Preston, Bolton or Manchester districts. 124/34, Office of this Paper.

**M**.P.S., UNIVERSITY trained, good Retail experience, disengaged, seeks post, preferably in London, or Locums. 127/451, Office of this Paper.

**M**.P.S., Manager or Assistant; season or permanency; London, South Coast or Welsh resort for preference; locum or relief duties might be arranged; excellent references. "Alpha," 129/9, Office of this Paper.

**P**ORTSMOUTH DISTRICT.—Young lady, referred Pharmacy, Edinburgh trained, requires situation; 7 years' experience, Photographic and Dispensing, country and town; references. Nan Crawford, 56 Edgware Road, Milton, Portsmouth.

**Q**UALIFIED; 24; 5 ft. 10 in.; experienced all branches and Optics; registered R.P.U.; excellent references; permanency; season or Locum. "N. H." 52 Chapeltown Road, Leeds.

**Q**UALIFIED Dispenser, 7 years' experience with firm of Doctors, seeks post; West of England preferred. 114/19, Office of this Paper.

**Q**UALIFIED, 31, married, 15 years' experience, desires permanency; Manager or Assistant; Lancs., Yorks. 9 Pinder Street, Hulme, Manchester.

**Q**UALIFIED; Locum or Management; thoroughly experienced; Photography, Dispensing, Counter. "Chemist," 86 Chelembord Road, S. Woodford, E.18.

**QUALIFIED**, 25, desires position as Branch Manager; seven years' good all-round experience, including Photography; fast position management; Lancs. or Yorks. preferred, but not essential. 127/1, Office of this Paper.

**SENIOR** or Manager; qualified; widower; good references and experience; middle age; well up in Surgical Appliances, Dispensing, Prescribing and Optical; disengaged shortly; London district preferred. 127/15, Office of this Paper.

**STUDENT** (Part II) requires temporary duty for holiday period, July 9-August 11 inclusive; good-class seaside business preferred, as former experience; good references. Apply BM/Z03N, W.C.1.

**UNQUALIFIED** requires position as Assistant; good experience Counter, Dispensing, Window-dressing and Buying; age 30; excellent references. E. Lloyd, 38 Nova Road, W. Croydon, Surrey.

**UNQUALIFIED**; Manager or Assistant; age 32, married, energetic, tall, desires position of scope for good all-round ability in Salesmanship, Dispensing, Photography, Window-dressing, etc.; good references; preferably with living accommodation; disengaged July 1; London and City experience. Martin, 203 Whitecross Street, Finsbury, E.C.1.

**YOUTH**; 20; Dispensing, Counter, Window and Showcase Dressing and general shop routine; hard worker; small remuneration; excellent references; town or country. Apply E. M. Golden-Bloom, c/o Jones (Chemist), East Acton.

### WHOLESALE.

**A DVERTISER**, 26, seeks situation as Representative to good Toilet or Soap House; good Retail experience; full particulars. Apply 125/14, Office of this Paper.

**CHEMIST**, 36; unqualified; last 12 years manager of warehouse of multiple shop company (20 branches); Buying, Manufacturing Galenicals and own preparations, distribution; references undeniable. H. Davis, 35 St. James Street, Brighton.

**D**OES any old-established firm want a trustworthy Representative; Retail trained and 20 years' connection over lower half of England and Wales; strictest references? "W. G." 18 Clare Avenue, Hoole, Chester.

**MEDICAL** propaganda, technical expert, present Sales Manager, all branches Therapeutics, shortly open for engagement; highly skilled organiser-controller. 127/447, Office of this Paper.

**PHARMACEUTICAL** Chemist, home, Continental and Colonial experience, especially on the Manufacturing side, desires position with sound concern; would consider the purchase of a financial interest. P.C.B. 26/29, Office of this Paper.

**P**HARMACIST, with high technical qualifications, Retail, Laboratory and propaganda experience, seeks post. 127/452, Office of this Paper.

**R**EPRESENTATIVE, with 9 years' sound connection, Eastern Counties, Chemists and Hairdressers, Toilets and Packed Goods, age 35, sound references and proved salesmanship, seeks similar post with good house. 126/24, Office of this Paper.

**R**EPRESENTATIVE, experienced, reliable, shortly available for Toiletries; at present representing well-known lines; South Wales, Mon., Glos., Som. "C. R. P." 7 Pwllmawr Avenue, Rumney.

**R**EPRESENTATIVE, well-established connection Wholesale and Retail Chemists, North of England, open to represent first-class House. 127/4, Office of this Paper.

**S**ALESMAN, with good connection, desires sound commission, London, S.E., S.W. and West postal area. 122/22, Office of this Paper.

**S**COTLAND.—Representative, well known Chemists, Stores, desires change; salary basis only considered; good experience and credentials. 124/39, Office of this Paper.

**T**OILET Representative, 8 years' experience London Stores, Chemists, Ladies' Hairdressers, desires change; whole time; salary, commission expenses basis. "Toilet," P.C.B. 31/3, Office of this Paper.

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**A** VERY Personal Weighing Machine with upholstered Chair, guaranteed accurate, £7 10s., delivered. Apply Vandome's, Weighing Machinists, Queen Victoria Street.

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**S**ALE OF STOCK, comprising Oak and Mahogany Drug Runs, Wall Cases, glass-fronted Counters, all-glass Counters, Dispensing Screens, Perfume Cases and Desks, Silent Salesmen, etc. Call, write or 'phone your requirements. FARLEY'S, 227 Old Street, E.C.1.

**S**ECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 219 Old Street, London, E.C.1.

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**£87 10<sup>S</sup>**.—for set of Mahogany Fittings, consisting of 10 ft. Drug Run, fitted 30 glass knobbed and labelled drawers, 10 ft. glass-fronted Counter, 8 ft. Wallcase, 6 ft. Dispensing Screen, 3 ft. Counter Case, Perfumery Showcase and Cash Till; would separate. Illustrated list on request. E. BERG, LTD., 336 Old Street, E.C.1.

**£100.**—MODERN SET of complete Pharmacy Fixtures, comprising 12 ft. Drug Fitting of drawers, cupboards, lockers, and shelving, 12 ft. glass-fronted Counter, 6 ft. Dispensing Screen, 4 ft. Wall Showcase, 6 ft. Dispenser's Fixture, Counter Drawers, Cash Till; ready for use. PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, London, E.C.1. "Pharmacy Fitters for Over a Century."

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